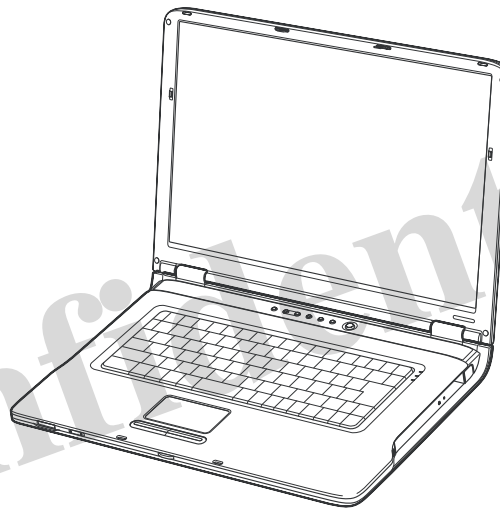


# SERVICE MANUAL

## Revision History

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**9-876-387-05**



- ## PERSONAL COMPUTER

**SONY®**

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All other names of systems, products and services in this manual are trademarks or registered trademarks of their respective owners. In this manual, the (TM) or (R) mark are not specified.

Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate. Dispose of used battery promptly. Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, mutilation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

## Service and Inspection Precautions

### 1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

### 2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the  $\triangle$  mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

### 3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

### 4. Inspect after completing service

After servicing, inspect to make sure that all

screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

### 5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

### 6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**  
**LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  $\triangle$  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.**

Confidential

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

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History of the changes is shown as the "Revision History" at the end of this data.

変更履歴は、"Revision History"として、本データ末に記載してあります。

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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

# CHAPTER 1.

## SPECIFICATIONS

### 1-1. Specifications

	J			
	VGN-A61B	VGN-A51S2*/A51PS2*	VGN-A51S1*/A51PS1*	VGN-A71S*/A71PS*
CPU	Pentium-M 1.6A(D)	*1)	*1)	*1)
Graphic	Mobility Radeon 9700	Mobility Radeon 9200	Mobility Radeon 9200	Mobility Radeon 9700
LCD	17.0"WXGA+ (Clear Black)	15.0"SXGA+ (Clear Black)	15.4"WXGA (Clear Black)	17.0"WUXGA (Clear Black)
HDD	80GB	*2)	*2)	*2)
MEMORY(Slot1)	512MB DDR333	*3)	*3)	*3)
MEMORY(Slot2)	-			
QUANTITY[STANDARD/MAX]	512MB/2GB			
OPT-DRIVE	DVD Multi Drive	DVD Multi Drive Combo	DVD Multi Drive Combo	DVD Multi Drive Combo
AC adaptor	AC19V7	AC19V7/AC19V3	AC19V7/AC19V3	AC19V7/AC19V3
Battery	BP2EA	BP2EA	BP2EA	BP2EA
Wireless LAN	O	O	O	O
Bluetooth	X	X	X	X
AV PR	O	O/X	O/X	O/X
Audio PR	X	X	X	X
W-Mouse	O	X	O	O
Memory Card Adapter	O	O	O	O
Remote Controller	O	O/X	O/X	O/X
OS	XP Home	XP Home/XP Pro	XP Home/XP Pro	XP Home/XP Pro

△[MA] \*1)Mobile Cel 1.4,Pentium-M 1.6A(D),Pentium-M 1.8(D),Pentium-M 2.0(D) \*2)100GB,80GB(5400rpm),60GB \*3)1024MB\*2,512MB\*2,512MB\*1

△[MA] \*4)Mobile Cel 1.3,Mobile Cel 1.4(B),Pentium-M 1.5A(D),Pentium-M 1.60,Pentium-M 1.7(D),Pentium-M 1.8(D),Pentium-M 2.0(D) \*5)100GB,80GB(5400rpm),80GB,60GB,40GB \*6)1024MB\*1,1024MB\*2,512MB\*1,512MB\*2,256MB\*1,256MB\*2

	AM						
	VGN-A290	VGN-A260	VGN-A250	VGN-A230*/A230B*/A230P*	VGN-A240*/A240B*/A240P*	VGN-A270*/A270B/A270P*	VGN-A290F
CPU	Pentium-M 1.7A(D)	Pentium-M 1.6A(D)	Pentium-M 1.6A(D)	*4)	*4)	*4)	Pentium-M 1.6A(D)
Graphic	Mobility Radeon 9700	Mobility Radeon 9200	Mobility Radeon 9200	Mobility Radeon 9200	Mobility Radeon 9200	Mobility Radeon 9700	Mobility Radeon 9200
LCD	17.0"WUXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.0"XGA/15.0"SXGA+ (Clear Black)	15.4"WXGA (Clear Black)	17.0"WUXGA/17.0"WXGA (Clear Black)	15.4"WXGA (Clear Black)
HDD	100GB	80GB	80GB	*5)	*5)	*5)	60GB
MEMORY(Slot1)	512MB DDR333	256MB DDR333	256MB DDR333	*6)	*6)	*6)	256MB DDR333
MEMORY(Slot2)	512MB DDR333	256MB DDR333	256MB DDR333				256MB DDR333
QUANTITY[STANDARD/MAX]	512MB/2GB	512MB/2GB	512MB/2GB				512MB/2GB
OPT-DRIVE	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW Combo	DVD+/-RW Combo	DVD+/-RW Combo	DVD+/-RW
AC adaptor	AC19V7	AC19V7	AC19V3	AC19V7/AC19V3	AC19V7/AC19V3	AC19V7/AC19V3	AC19V3
Battery	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA
Wireless LAN	O	O	O	O/X	O/X	O	O
Bluetooth	X	X	X	O/X	O/X	O	X
AV PR	O	O	X	O/X	O/X	O/X	X
Audio PR	X	X	X	X	X	X	X
W-Mouse	X	X	X	X	O	O/X	X
Memory Card Adapter	X	X	X	X	X	X	X
Remote Controller	O	O	X	O/X	O/X	O/X	X
OS	XP Home	XP Home	XP Home	XP Pro/XP Pro SMB/ XP Home	XP Pro/XP Pro SMB/ XP Home	XP Pro/XP Pro SMB/ XP Home	XP Home

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• The trademarks or registered trademarks of above table, refer to page 2.

• The model that is accompanied by asterisk (\*) is the CTO model  
For the equipment configuration, refer to the CTO Information.

• 本表中の商標・登録商標については、2 ページをご参照ください。  
• 機種名に (\*) がつくのは CTO モデルです。  
組み合わせについては、CTO Information ご確認ください。

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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

	EJ					
	VGN-A297XP	VGN-A217S	VGN-A217M	VGN-A295HP	VGN-A215M	VGN-A215Z
CPU	Pentium-M 1.8A(D)	Pentium-M 1.7A(D)	Pentium-M 1.6A(D)	Pentium-M 1.7A(D)	Pentium-M 1.6A(D)	Pentium-M 1.7A(D)
Graphic	Mobility Radeon 9700	Mobility Radeon 9700	Mobility Radeon 9700	Mobility Radeon 9200	Mobility Radeon 9200	Mobility Radeon 9200
LCD	17.0"WUXGA (Clear Black)	17.0"WXGA+ (Clear Black)	17.0"WXGA+ (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)
HDD	80GB	100GB	80GB	60GB	60GB	60GB
MEMORY(Slot1)	512MB DDR333	256MB DDR333	256MB DDR333	256MB DDR333	256MB DDR333	256MB DDR333
MEMORY(Slot2)	-	-	-	-	-	256MB DDR333
QUANTITY[STANDARD/MAX]	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB
OPT-DRIVE	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW
AC adaptor	AC19V3	AC19V7	AC19V3	AC19V3	AC19V3	AC19V3
Battery	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA
Wireless LAN	O	O	O	O	O	O
Bluetooth	O	O	O	O	X	O
AV PR	X	O	X	X	X	X
Audio PR	X	X	X	X	X	X
W-Mouse	O	O	O	X	X	X
Memory Card Adapter	X	X	X	X	X	X
Remote Controller	X	O	X	X	X	X
OS	XP Pro	XP Home	XP Home	XP Pro	XP Home	XP Home
	△[MA]	△[MA]	△[MA]	△[MA]	△[MA]	△[MA]

	AO						
	VGN-A29CP	VGN-A23CP	VGN-A21C	VGN-A29GP	VGN-A29SP	VGN-A29LP	VGN-A29TP
CPU	Pentium-M 2.0A(D)	Pentium-M 1.6A(D)	Pentium-M 1.5A(D)	Pentium-M 1.6A(D)	Pentium-M 1.6A(D)	Pentium-M 1.6A(D)	Pentium-M 1.6A(D)
Graphic	Mobility Radeon 9700	Mobility Radeon 9200	Mobility Radeon 9200	Mobility Radeon 9200	Mobility Radeon 9200	Mobility Radeon 9200	Mobility Radeon 9200
LCD	17.0"WUXGA (Clear Black)	15.0"XGA	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)
HDD	80GB	40GB	40GB	60GB	60GB	60GB	60GB
MEMORY(Slot1)	512MB DDR333	256MB DDR333	256MB DDR333	512MB DDR333	512MB DDR333	512MB DDR333	512MB DDR333
MEMORY(Slot2)	-	-	-	-	-	-	-
QUANTITY[STANDARD/MAX]	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB
OPT-DRIVE	DVD+/-RW	Combo	Combo	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW
AC adaptor	AC19V7	AC19V3	AC19V3	AC19V3	AC19V3	AC19V3	AC19V3
Battery	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA	BP2EA
Wireless LAN	O	O	O	O	O	O	O
Bluetooth	X	X	X	X	X	X	X
AV PR	X	X	X	X	X	X	X
Audio PR	O	X	X	X	X	X	X
W-Mouse	X	X	X	X	X	X	X
Memory Card Adapter	O	X	X	X	X	X	X
Remote Controller	O	X	X	X	X	X	X
OS	XP Pro	XP Pro	XP Home	XP Pro	XP Pro	XP Pro	XP Pro
	△[MA]	△[MA]	△[MA]	△[MA]	△[MA]	△[MA]	△[MA]

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For the equipment configuration, refer to the CTO Information.
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- 機種名に (\*) がつくのは CTO モデルです。  
組み合わせについては、CTO Information ご確認ください。

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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

## 1-2. CTO Information

### 1. Model name:VGN-A51PS2(Japanese Area)

OS:Windows XP Pro  
Ver.1.0

CPU	Pentium-M 755 6-706-559-01 IC RH80536GC0412MSL7EM	Pentium-M 745 6-600-306-01 IC RH80536GC0332MSL7EN	Pentium-M 725 6-600-355-01 IC RH80536GC0252MSL7EG	Celeron-M 330 6-706-572-01 IC RH80535NC017512SL6N6
HDD	100GB A-1083-188-A HDD (MHU2100AT-100GB)	80GB A-1062-140-A HDD (80GB,HTS548080M9AT00)	60GB A-1065-502-A ASSY HDD 60GB (-21) (L40) (S)	
LCD	15.0 SXGA+ A-1062-139-A LCD UNIT (2CFL-15SXGA+-SH)			
Memory	1024MB*2 6-706-244-01x2 IC EBD11UD8ADDA-6B	512MB*2 6-706-337-01x2 IC M470L6524BT0-CB3	512MB*1 6-706-337-01 IC M470L6524BT0-CB3	
Opt.Drive	Super Multi/+DL 1-797-066-11 DVD+-RW(UJ-831BSX2-A)	Combo24 1-797-053-11 COMBO DRIVE(UJDA760)		
W-LAN	b/g(intel) 1-761-864-23 WIRELESS LAN CARD			
Memory Card Adapter	MCA10 1-478-615-11 MEMORY CARD ADAPTER			
TV Tuner (Port Replicator)	PRAV1	None		
Mouse	None			

### 2. Model name:VGN-A51S2(Japanese Area)

OS:Windows XP Home  
Ver.1.0

CPU	Pentium-M 755 6-706-559-01 IC RH80536GC0412MSL7EM	Pentium-M 745 6-600-306-01 IC RH80536GC0332MSL7EN	Pentium-M 725 6-600-355-01 IC RH80536GC0252MSL7EG	Celeron-M 330 6-706-572-01 IC RH80535NC017512SL6N6
HDD	100GB A-1083-188-A HDD (MHU2100AT-100GB)	80GB A-1062-140-A HDD (80GB,HTS548080M9AT00)	60GB A-1065-502-A ASSY HDD 60GB (-21) (L40) (S)	
LCD	15.0 SXGA+ A-1062-139-A LCD UNIT (2CFL-15SXGA+-SH)			
Memory	1024MB*2 6-706-244-01x2 IC EBD11UD8ADDA-6B	512MB*2 6-706-337-01x2 IC M470L6524BT0-CB3	512MB*1 6-706-337-01 IC M470L6524BT0-CB3	
Opt.Drive	Super Multi/+DL 1-797-066-11 DVD+-RW(UJ-831BSX2-A)	Combo24 1-797-053-11 COMBO DRIVE(UJDA760)		
W-LAN	b/g(intel) 1-761-864-23 WIRELESS LAN CARD			
Memory Card Adapter	MCA10 1-478-615-11 MEMORY CARD ADAPTER			
TV Tuner (Port Replicator)	PRAV1	None		
Mouse	None			



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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

### 3. Model name:VGN-A51PS1(Japanese Area)

OS:Windows XP Pro  
Ver.1.0

CPU	Pentium-M 755 6-706-559-01 IC RH80536GC0412MSL7EM	Pentium-M 745 6-600-306-01 IC RH80536GC0332MSL7EN	Pentium-M 725 6-600-355-01 IC RH80536GC0252MSL7EG	Celeron-M 330 6-706-572-01 IC RH80535NC017512SL6N6
HDD	100GB A-1083-188-A HDD (MHU2100AT-100GB)	80GB A-1062-140-A HDD (80GB,HTS548080M9AT00)	60GB A-1065-502-A ASSY HDD 60GB (-21) (L40) (S)	
LCD	15.4 WXGA A-1072-741-A ASSY LCD(15.4WXGA)(H)(S)			
Memory	1024MB*2 6-706-244-01x2 IC EBD11UD8ADDA-6B	512MB*2 6-706-337-01x2 IC M470L6524BT0-CB3	512MB*1 6-706-337-01 IC M470L6524BT0-CB3	
Opt.Drive	Super Multi+DL 1-797-066-11 DVD+RW(UJ-831BSX2-A)	Combo24 1-797-053-11 COMBO DRIVE(UJDA760)		
W-LAN	b/g(intel) 1-761-864-23 WIRELESS LAN CARD			
Memory Card Adapter	MCA10 1-478-615-11 MEMORY CARD ADAPTER			
TV Tuner (Port Replicator)	PRAV1	None		
Mouse	WMS5 1-796-824-32 MOUSE (SLV)			

### 4. Model name:VGN-A51S1(Japanese Area)

OS:Windows XP Home  
Ver.1.0

CPU	Pentium-M 755 6-706-559-01 IC RH80536GC0412MSL7EM	Pentium-M 745 6-600-306-01 IC RH80536GC0332MSL7EN	Pentium-M 725 6-600-355-01 IC RH80536GC0252MSL7EG	Celeron-M 330 6-706-572-01 IC RH80535NC017512SL6N6
HDD	100GB A-1083-188-A HDD (MHU2100AT-100GB)	80GB A-1062-140-A HDD (80GB, HTS548080M9AT00)	60GB A-1065-502-A ASSY HDD 60GB (-21) (L40) (S)	
LCD	15.4 WXGA A-1072-741-A ASSY LCD(15.4WXGA)(H)(S)			
Memory	1024MB*2 6-706-244-01x2 IC EBD11UD8ADDA-6B	512MB*2 6-706-337-01x2 IC M470L6524BT0-CB3	512MB*1 6-706-337-01 IC M470L6524BT0-CB3	
Opt.Drive	Super Multi/+DL 1-797-066-11 DVD+-RW(UJ-831BSX2-A)	Combo24 1-797-053-11 COMBO DRIVE(UJDA760)		
W-LAN	b/g(intel) 1-761-864-23 WIRELESS LAN CARD			
Memory Card Adapter	MCA10 1-478-615-11 MEMORY CARD ADAPTER			
TV Tuner (Port Replicator)	PRAV1	None		
Mouse	WMS5 1-796-824-32 MOUSE (SLV)			

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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

## 5. Model name:VGN-A71PS(Japanese Area)

OS:Windows XP Pro  
Ver.1.0

CPU	Pentium-M 755 6-706-559-01 IC RH80536GC0412MSL7EM	Pentium-M 745 6-600-306-01 IC RH80536GC0332MSL7EN	Pentium-M 725 6-600-355-01 IC RH80536GC0252MSL7EG	Celeron-M 330 6-706-572-01 IC RH80535NC017512SL6N6
HDD	100GB A-1083-188-A HDD (MHU2100AT-100GB)	80GB A-1062-140-A HDD (80GB,HTS548080M9AT00)	60GB A-1065-502-A ASSY HDD 60GB (-21) (L40) (S)	
LCD	17WUXGA A-1062-138-A LCD UNIT (2CFL-17WUXGA) (S)			
Memory	1024MB*2 6-706-244-01x2 IC EBD11UD8ADDA-6B	512MB*2 6-706-337-01x2 IC M470L6524BT0-CB3	512MB*1 6-706-337-01 IC M470L6524BT0-CB3	
Opt.Drive	Super Multi+DL 1-797-066-11 DVD+RW(UJ-831BSX2-A)	Combo24 1-797-053-11 COMBO DRIVE(UJDA760)		
W-LAN	a/b/g(Atheros) 1-761-891-12 WIRELESS LAN CARD			
Memory Card Adapter	MCA10 1-478-615-11 MEMORY CARD ADAPTER			
TV Tuner (Port Replicator)	PRAV1	None		
Mouse	WMS5 1-796-824-32 MOUSE (SLV)			

## 6. Model name:VGN-A71S(Japanese Area)

OS:Windows XP Home  
Ver.1.0

CPU	Pentium-M 755 6-706-559-01 IC RH80536GC0412MSL7EM	Pentium-M 745 6-600-306-01 IC RH80536GC0332MSL7EN	Pentium-M 725 6-600-355-01 IC RH80536GC0252MSL7EG	Celeron-M 330 6-706-572-01 IC RH80535NC017512SL6N6
HDD	100GB A-1083-188-A HDD (MHU2100AT-100GB)	80GB A-1062-140-A HDD (80GB, HTS548080M9AT00)	60GB A-1065-502-A ASSY HDD 60GB (-21) (L40) (S)	
LCD	17WUXGA A-1062-138-A LCD UNIT (2CFL-17WUXGA) (S)			
Memory	1024MB*2 6-706-244-01x2 IC EBD11UD8ADDA-6B	512MB*2 6-706-337-01x2 IC M470L6524BT0-CB3	512MB*1 6-706-337-01 IC M470L6524BT0-CB3	
Opt.Drive	Super Multi/+DL 1-797-066-11 DVD+-RW(UJ-831BSX2-A)	Combo24 1-797-053-11 COMBO DRIVE(UJDA760)		
W-LAN	a/b/g(Atheros) 1-761-891-12 WIRELESS LAN CARD			
Memory Card Adapter	MCA10 1-478-615-11 MEMORY CARD ADAPTER			
TV Tuner (Port Replicator)	PRAV1	None		
Mouse	WMS5 1-796-824-32 MOUSE (SLV)			



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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP



7. Model name:VGN-A230P(American Area)  
OS:Windows XP Pro  
Ver:1.0

CPU	Pentium-M 755 6-706-559-01 IC RH80536GC0412MSL7EM	Pentium-M 745 6-600-306-01 IC RH80536GC0332MSL7EN	Pentium-M 735 6-600-343-01 IC RH80536GC02292MSL7EP	Pentium-M 725 6-600-355-01 IC RH80536GC0252MSL7EG	Pentium-M 715 6-600-368-01 IC RH80536GC0212MSL7GL	Celeron-M 330 6-706-572-01 IC RH80536NC017512SL6N6	Celeron-M 1.3 6-707-262-01 IC RH80536NC0131M
HDD	100GB A-1083-188-A HDD (MHU2100AT-100GB)	80GB A-1062-140-A HDD (80GB,HTS548080MBAT00)	80GB A-8067-943-A ASSY HDD 80GB (140) (S)	80GB A-1065-502-A ASSY HDD 80GB (-21) (140) (S)	40GB A-1083-186-A HDD (40GB,HTS424040)(S)		
LCD	15.0 SXGA+ A-1062-139-A LCD UNIT (2CFL-15SXGA+-SH)	15 XGA(AU) A-8115-791-A ASSY LCD 15XGA (AU) (S)					
Memory	1024MB*2 6-706-244-01x2 IC EBD11UD8ADDA-6B	1024MB*1 6-706-244-01 IC EBD11UD8ADDA-6B	512MB*2 6-706-337-01x2 IC M470L6524BT0-CB3	512MB*1 6-706-337-01 IC M470L6524BT0-CB3	256MB*2 6-706-064-01x2 IC HY564D32020GDL-6-C	256MB*1 6-706-064-01 IC HY564D32020GDL-6-C	
Opt.Drive	DVD+RW(D56A) 6-457-597-10 DRIVE_DVD DW-D56A-VN	DVD+RW(U56A) 6-457-602-10 DRIVE_DVD DW-U56A-VN	Combo24 6-797-053-11 COMBO DRIVE(UJDA760)				
W-LAN	b/g(intel) 1-761-864-14 WIRELESS LAN CARD	None					
Memory Card Adapter	MCA10 1-478-615-11 MEMORY CARD ADAPTER						
TV Tuner (Port Relicator)	PRAV1	None					
Mouse	None						

8. Model name:VGN-A230(American Area)  
OS:Windows XP Home  
Ver:1.0

CPU	Pentium-M 755 6-706-559-01 IC RH80536GC0412MSL7EM	Pentium-M 745 6-600-306-01 IC RH80536GC0332MSL7EN	Pentium-M 735 6-600-343-01 IC RH80536GC02292MSL7EP	Pentium-M 725 6-600-355-01 IC RH80536GC0252MSL7EG	Pentium-M 715 6-600-368-01 IC RH80536GC0212MSL7GL	Celeron-M 330 6-706-572-01 IC RH80536NC017512SL6N6	Celeron-M 1.3 6-707-262-01 IC RH80536NC0131M
HDD	100GB A-1083-188-A HDD (MHU2100AT-100GB)	80GB A-1062-140-A HDD (80GB HTS548080MBAT00)	80GB A-8067-943-A ASSY HDD 80GB (140) (S)	80GB A-1065-502-A ASSY HDD 80GB (-21) (140) (S)	40GB A-1083-186-A HDD (40GB HTS424040)(S)		
LCD	15.0 SXGA+ A-1062-139-A LCD UNIT (2CFL-15SXGA+-SH)	15 XGA(AU) A-8115-791-A ASSY LCD 15XGA (AU) (S)					
Memory	1024MB*2 6-706-244-01x2 IC EBD11UD8ADDA-6B	1024MB*1 6-706-244-01 IC EBD11UD8ADDA-6B	512MB*2 6-706-337-01x2 IC M470L6524BT0-CB3	512MB*1 6-706-337-01 IC M470L6524BT0-CB3	256MB*2 6-706-064-01x2 IC HY564D32020GDL-6-C	256MB*1 6-706-064-01 IC HY564D32020GDL-6-C	
Opt.Drive	DVD+RW(D56A) 6-457-597-10 DRIVE_DVD DW-D56A-VN	DVD+RW(U56A) 6-457-602-10 DRIVE_DVD DW-U56A-VN	Combo24 6-797-053-11 COMBO DRIVE(UJDA760)				
W-LAN	b/g(intel) 1-761-864-14 WIRELESS LAN CARD	None					
Memory Card Adapter	MCA10 1-478-615-11 MEMORY CARD ADAPTER						
TV Tuner (Port Relicator)	PRAV1	None					
Mouse	None						

9. Model name:VGN-A230B(American Area)  
OS:Windows XP Pro SMB  
Ver:1.0

CPU	Pentium-M 755 6-706-559-01 IC RH80536GC0412MSL7EM	Pentium-M 745 6-600-306-01 IC RH80536GC0332MSL7EN	Pentium-M 735 6-600-343-01 IC RH80536GC02292MSL7EP	Pentium-M 725 6-600-355-01 IC RH80536GC0252MSL7EG	Pentium-M 715 6-600-368-01 IC RH80536GC0212MSL7GL	Celeron-M 330 6-706-572-01 IC RH80536NC017512SL6N6	Celeron-M 1.3 6-707-262-01 IC RH80536NC0131M
HDD	100GB A-1083-188-A HDD (MHU2100AT-100GB)	80GB A-1062-140-A HDD (80GB,HTS548080MBAT00)	80GB A-8067-943-A ASSY HDD 80GB (140) (S)	80GB A-1065-502-A ASSY HDD 80GB (-21) (140) (S)	40GB A-1083-186-A HDD (40GB,HTS424040)(S)		
LCD	15.0 SXGA+ A-1062-139-A LCD UNIT (2CFL-15SXGA+-SH)	15 XGA(AU) A-8115-791-A ASSY LCD 15XGA (AU) (S)					
Memory	1024MB*2 6-706-244-01x2 IC EBD11UD8ADDA-6B	1024MB*1 6-706-244-01 IC EBD11UD8ADDA-6B	512MB*2 6-706-337-01x2 IC M470L6524BT0-CB3	512MB*1 6-706-337-01 IC M470L6524BT0-CB3	256MB*2 6-706-064-01x2 IC HY564D32020GDL-6-C	256MB*1 6-706-064-01 IC HY564D32020GDL-6-C	
Opt.Drive	DVD+RW(D56A) 6-457-597-10 DRIVE_DVD DW-D56A-VN	DVD+RW(U56A) 6-457-602-10 DRIVE_DVD DW-U56A-VN	Combo24 6-797-053-11 COMBO DRIVE(UJDA760)				
W-LAN	b/g(intel) 1-761-864-14 WIRELESS LAN CARD	None					
Memory Card Adapter	MCA10 1-478-615-11 MEMORY CARD ADAPTER						
TV Tuner (Port Relicator)	PRAV1	None					
Mouse	None						

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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

10. Model name:VGN-A240P(American Area)  
OS:Windows XP Pro  
Ver.1.0

CPU	Pentium-M 755 6-600-359-01 IC RH80536GC0412MSL7EM	Pentium-M 745 6-600-306-01 IC RH80536GC0332MSL7EN	Pentium-M 735 6-600-343-01 IC RH80536GC0292MSL7EP	Pentium-M 725 6-600-355-01 IC RH80536GC0252MSL7EG	Pentium-M 715 6-600-368-01 IC RH80536GC0212MSL7GL	Celeron-M 330 6-706-572-01 IC RH80539NC017512SL6N6	Celeron-M 1.3 6-707-262-01 IC RH80539NC0131M
HDD	100GB A-1083-188-A HDD (MHU2100AT-100GB)	80GB A-1062-140-A HDD (80GB.HTS548080M9AT00)	80GB A-8067-943-A ASSY HDD 80GB (1.40) (S)	60GB A-1065-502-A ASSY HDD 60GB (-21) (1.40) (S)	40GB A-1083-186-A HDD (40GB.HTS424040)(S)		
LCD	15.4 WXGA A-1072-741-A ASSY LCD(15.4WXGA)(H)(S)						
Memory	1024MB*2 6-706-244-01x2 IC EBD11UD8ADDA-6B	1024MB*1 6-706-244-01 IC EBD11UD8ADDA-6B	512MB*2 6-706-337-01x2 IC M470L6524BT0-CB3	512MB*1 6-706-337-01 IC M470L6524BT0-CB3	256MB*2 6-706-064-01x2 IC HYS64D32020GDL-6-C	256MB*1 6-706-064-01 IC HYS64D32020GDL-6-C	
Opt.Drive	DVD+-RW(D56A) 8-457-597-10 DRIVE DVD DW-D56A-VN	DVD+-RW(D56A) 8-457-602-10 DRIVE DVD DW-U56A-VN	Combo24 1-797-053-11 COMBO DRIVE(UJDA780)				
W-LAN	b/g(intel) 1-761-864-14 WIRELESS LAN CARD	None					
Memory Card Adapter	MCA10 1-478-615-11 MEMORY CARD ADAPTER						
TV Tuner (Port Releicator)	PRAV1	None					
Mouse	WMS5 1-796-824-32 MOUSE (SLV)						

11. Model name:VGN-A240(American Area)  
OS:Windows XP Home  
Ver.1.0

CPU	Pentium-M 755 6-600-359-01 IC RH80536GC0412MSL7EM	Pentium-M 745 6-600-306-01 IC RH80536GC0332MSL7EN	Pentium-M 735 6-600-343-01 IC RH80536GC0292MSL7EP	Pentium-M 725 6-600-355-01 IC RH80536GC0252MSL7EG	Pentium-M 715 6-600-368-01 IC RH80536GC0212MSL7GL	Celeron-M 330 6-706-572-01 IC RH80539NC017512SL6N6	Celeron-M 1.3 6-707-262-01 IC RH80539NC0131M
HDD	100GB A-1083-188-A HDD (MHU2100AT-100GB)	80GB A-1062-140-A HDD (80GB.HTS548080M9AT00)	80GB A-8067-943-A ASSY HDD 80GB (1.40) (S)	60GB A-1065-502-A ASSY HDD 60GB (-21) (1.40) (S)	40GB A-1083-186-A HDD (40GB.HTS424040)(S)		
LCD	15.4 WXGA A-1072-741-A ASSY LCD(15.4WXGA)(H)(S)						
Memory	1024MB*2 6-706-244-01x2 IC EBD11UD8ADDA-6B	1024MB*1 6-706-244-01 IC EBD11UD8ADDA-6B	512MB*2 6-706-337-01x2 IC M470L6524BT0-CB3	512MB*1 6-706-337-01 IC M470L6524BT0-CB3	256MB*2 6-706-064-01x2 IC HYS64D32020GDL-6-C	256MB*1 6-706-064-01 IC HYS64D32020GDL-6-C	
Opt.Drive	DVD+-RW(D56A) 8-457-597-10 DRIVE DVD DW-D56A-VN	DVD+-RW(D56A) 8-457-602-10 DRIVE DVD DW-U56A-VN	Combo24 1-797-053-11 COMBO DRIVE(UJDA780)				
W-LAN	b/g(intel) 1-761-864-14 WIRELESS LAN CARD	None					
Memory Card Adapter	MCA10 1-478-615-11 MEMORY CARD ADAPTER						
TV Tuner (Port Releicator)	PRAV1	None					
Mouse	WMS5 1-796-824-32 MOUSE (SLV)						

12. Model name:VGN-A240B(American Area)  
OS:Windows XP Pro SMB  
Ver.1.0

CPU	Pentium-M 755 6-600-359-01 IC RH80536GC0412MSL7EM	Pentium-M 745 6-600-306-01 IC RH80536GC0332MSL7EN	Pentium-M 735 6-600-343-01 IC RH80536GC0292MSL7EP	Pentium-M 725 6-600-355-01 IC RH80536GC0252MSL7EG	Pentium-M 715 6-600-368-01 IC RH80536GC0212MSL7GL	Celeron-M 330 6-706-572-01 IC RH80539NC017512SL6N6	Celeron-M 1.3 6-707-262-01 IC RH80539NC0131M
HDD	100GB A-1083-188-A HDD (MHU2100AT-100GB)	80GB A-1062-140-A HDD (80GB.HTS548080M9AT00)	80GB A-8067-943-A ASSY HDD 80GB (1.40) (S)	60GB A-1065-502-A ASSY HDD 60GB (-21) (1.40) (S)	40GB A-1083-186-A HDD (40GB.HTS424040)(S)		
LCD	15.4 WXGA A-1072-741-A ASSY LCD(15.4WXGA)(H)(S)						
Memory	1024MB*2 6-706-244-01x2 IC EBD11UD8ADDA-6B	1024MB*1 6-706-244-01 IC EBD11UD8ADDA-6B	512MB*2 6-706-337-01x2 IC M470L6524BT0-CB3	512MB*1 6-706-337-01 IC M470L6524BT0-CB3	256MB*2 6-706-064-01x2 IC HYS64D32020GDL-6-C	256MB*1 6-706-064-01 IC HYS64D32020GDL-6-C	
Opt.Drive	DVD+-RW(D56A) 8-457-597-10 DRIVE DVD DW-D56A-VN	DVD+-RW(D56A) 8-457-602-10 DRIVE DVD DW-U56A-VN	Combo24 1-797-053-11 COMBO DRIVE(UJDA780)				
W-LAN	b/g(intel) 1-761-864-14 WIRELESS LAN CARD	None					
Memory Card Adapter	MCA10 1-478-615-11 MEMORY CARD ADAPTER						
TV Tuner (Port Releicator)	PRAV1	None					
Mouse	WMS5 1-796-824-32 MOUSE (SLV)						



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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

13. Model name:VGN-A270P(American Area)  
OS:Windows XP Pro  
Ver.1.0

CPU	Pentium-M 755 6-706-559-01 IC RH80536GC0412MSL7EM	Pentium-M 745 6-600-306-01 IC RH80536GC0332MSL7EN	Pentium-M 735 6-600-343-01 IC RH80536GC0282MSL7EP	Pentium-M 725 6-600-355-01 IC RH80536GC0252MSL7EG	Pentium-M 715 6-600-368-01 IC RH80536GC0212MSL7GL	Celeron-M 330 6-706-572-01 IC RH80536NC017512SL6N6	Celeron-M 1.3 6-707-262-01 IC RH80536NC0131M
HDD	100GB A-1083-188-A HDD (MHUJ2100AT-100GB)	80GB A-1062-140-A HDD (80GB HTS548080M9AT00)	80GB A-1067-943-A ASSY HDD 80GB (I,40) (S)	80GB A-1065-502-A ASSY HDD 80GB (-21) (I,40) (S)	40GB A-1083-186-A HDD (40GB HTS424040)(S)		
LCD	17WXGA A-1062-138-A LCD UNIT (2CFL-17WXGA) (S)	17WXGA+ A-1087-141-A LCD UNIT(17WXGA)(S)					
Memory	1024MB*2 6-706-244-01x2 IC EBD11UD8ADDA-6B	1024MB*1 6-706-244-01 IC EBD11UD8ADDA-6B	512MB*2 6-706-337-01x2 IC M470L6524BT0-CB3	512MB*1 6-706-337-01 IC M470L6524BT0-CB3	256MB*2 6-706-064-01x2 IC HYS64D32020GDL-6-C	256MB*1 6-706-064-01 IC HYS64D32020GDL-6-C	
Opt.Drive	DVD+-RW(D56A) 6-457-597-10 DRIVE DVD DW-D56A-VN	DVD+-RW(D56A) 6-457-602-10 DRIVE DVD DW-U56A-VN	Combo24 1-797-053-11 COMBO DRIVE(UJDA760)				
W-LAN	b/g(Intel) 1-761-864-14 WIRELESS LAN CARD						
Memory Card Adapter	MCA10 1-478-615-11 MEMORY CARD ADAPTER						
TV Tuner (Port Releicator)	PRAV1	None					
Mouse	WM55 1-796-824-32 MOUSE (SLV)	None					

14. Model name:VGN-A270(American Area)  
OS:Windows XP Home  
Ver.1.0

CPU	Pentium-M 755 6-706-559-01 IC RH80536GC0412MSL7EM	Pentium-M 745 6-600-306-01 IC RH80536GC0332MSL7EN	Pentium-M 735 6-600-343-01 IC RH80536GC0282MSL7EP	Pentium-M 725 6-600-355-01 IC RH80536GC0252MSL7EG	Pentium-M 715 6-600-368-01 IC RH80536GC0212MSL7GL	Celeron-M 330 6-706-572-01 IC RH80536NC017512SL6N6	Celeron-M 1.3 6-707-262-01 IC RH80536NC0131M
HDD	100GB A-1083-188-A HDD (MHUJ2100AT-100GB)	80GB A-1062-140-A HDD (80GB HTS548080M9AT00)	80GB A-1067-943-A ASSY HDD 80GB (I,40) (S)	80GB A-1065-502-A ASSY HDD 80GB (-21) (I,40) (S)	40GB A-1083-186-A HDD (40GB HTS424040)(S)		
LCD	17WXGA A-1062-138-A LCD UNIT (2CFL-17WXGA) (S)	17WXGA+ A-1087-141-A LCD UNIT(17WXGA)(S)					
Memory	1024MB*2 6-706-244-01x2 IC EBD11UD8ADDA-6B	1024MB*1 6-706-244-01 IC EBD11UD8ADDA-6B	512MB*2 6-706-337-01x2 IC M470L6524BT0-CB3	512MB*1 6-706-337-01 IC M470L6524BT0-CB3	256MB*2 6-706-064-01x2 IC HYS64D32020GDL-6-C	256MB*1 6-706-064-01 IC HYS64D32020GDL-6-C	
Opt.Drive	DVD+-RW(D56A) 6-457-597-10 DRIVE DVD DW-D56A-VN	DVD+-RW(U56A) 6-457-602-10 DRIVE DVD DW-U56A-VN	Combo24 1-797-053-11 COMBO DRIVE(UJDA760)				
W-LAN	b/g(Intel) 1-761-864-14 WIRELESS LAN CARD						
Memory Card Adapter	MCA10 1-478-615-11 MEMORY CARD ADAPTER						
TV Tuner (Port Releicator)	PRAV1	None					
Mouse	WM55 1-796-824-32 MOUSE (SLV)	None					

15. Model name:VGN-A270B(American Area)  
OS:Windows XP Pro SMB  
Ver.1.0

CPU	Pentium-M 755 6-706-559-01 IC RH80536GC0412MSL7EM	Pentium-M 745 6-600-306-01 IC RH80536GC0332MSL7EN	Pentium-M 735 6-600-343-01 IC RH80536GC0282MSL7EP	Pentium-M 725 6-600-355-01 IC RH80536GC0252MSL7EG	Pentium-M 715 6-600-368-01 IC RH80536GC0212MSL7GL	Celeron-M 330 6-706-572-01 IC RH80536NC017512SL6N6	Celeron-M 1.3 6-707-262-01 IC RH80536NC0131M
HDD	100GB A-1083-188-A HDD (MHUJ2100AT-100GB)	80GB A-1062-140-A HDD (80GB HTS548080M9AT00)	80GB A-1067-943-A ASSY HDD 80GB (I,40) (S)	80GB A-1065-502-A ASSY HDD 80GB (-21) (I,40) (S)	40GB A-1083-186-A HDD(40GB HTS424040) (S)		
LCD	17WXGA A-1062-138-A LCD UNIT (2CFL-17WXGA) (S)	17WXGA+ A-1087-141-A LCD UNIT(17WXGA)(S)					
Memory	1024MB*2 6-706-244-01x2 IC EBD11UD8ADDA-6B	1024MB*1 6-706-244-01 IC EBD11UD8ADDA-6B	512MB*2 6-706-337-01x2 IC M470L6524BT0-CB3	512MB*1 6-706-337-01 IC M470L6524BT0-CB3	256MB*2 6-706-064-01x2 IC HYS64D32020GDL-6-C	256MB*1 6-706-064-01 IC HYS64D32020GDL-6-C	
Opt.Drive	DVD+-RW(D56A) 6-457-597-10 DRIVE DVD DW-D56A-VN	DVD+-RW(U56A) 6-457-602-10 DRIVE DVD DW-U56A-VN	Combo24 1-797-053-11 COMBO DRIVE(UJDA760)				
W-LAN	b/g(Intel) 1-761-864-14 WIRELESS LAN CARD	None					
Memory Card Adapter	MCA10 1-478-615-11 MEMORY CARD ADAPTER						
TV Tuner (Port Releicator)	PRAV1	None					
Mouse	WM55 1-796-824-32 MOUSE (SLV)	None					

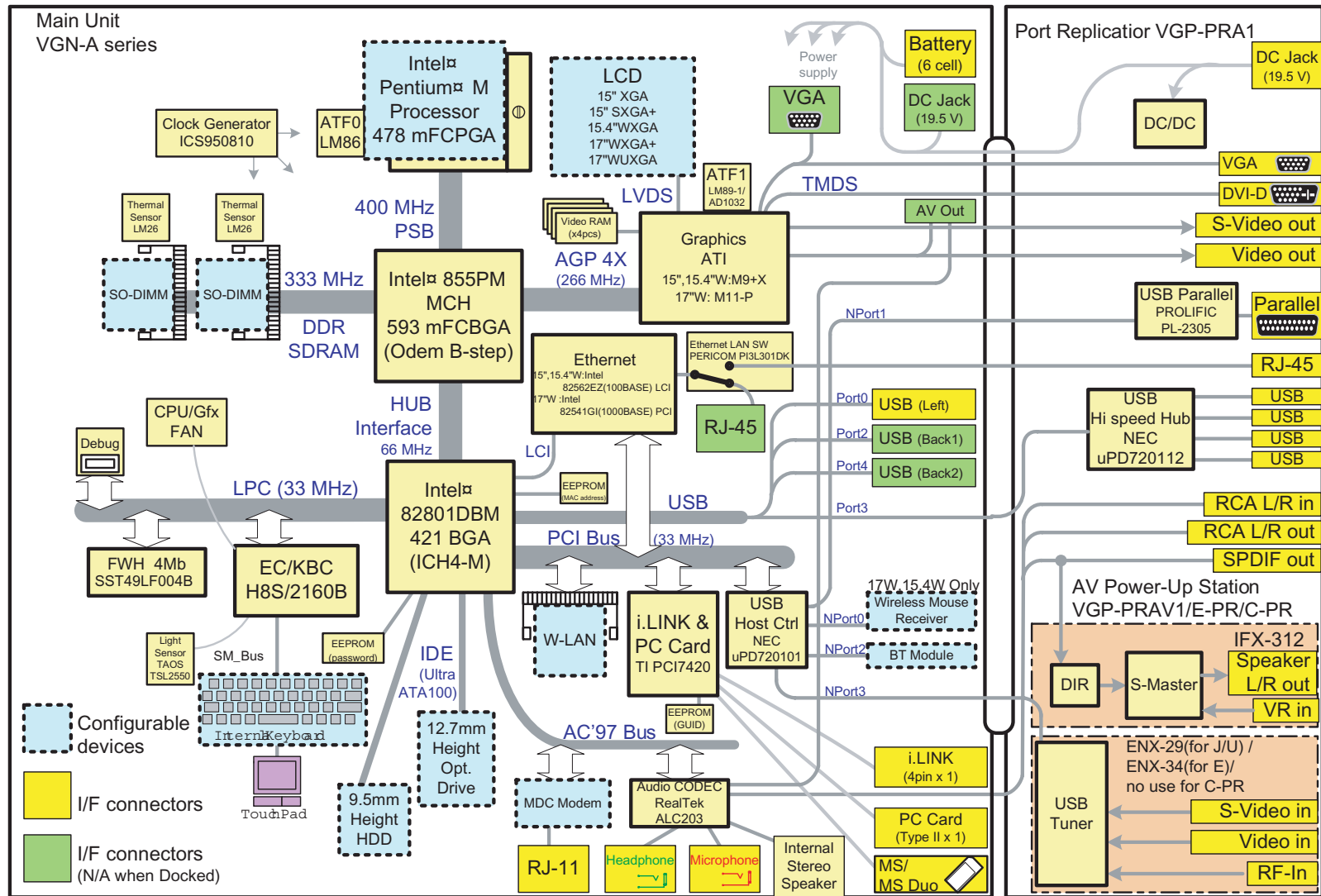


Confidential

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

## CHAPTER 2. BLOCK DIAGRAM

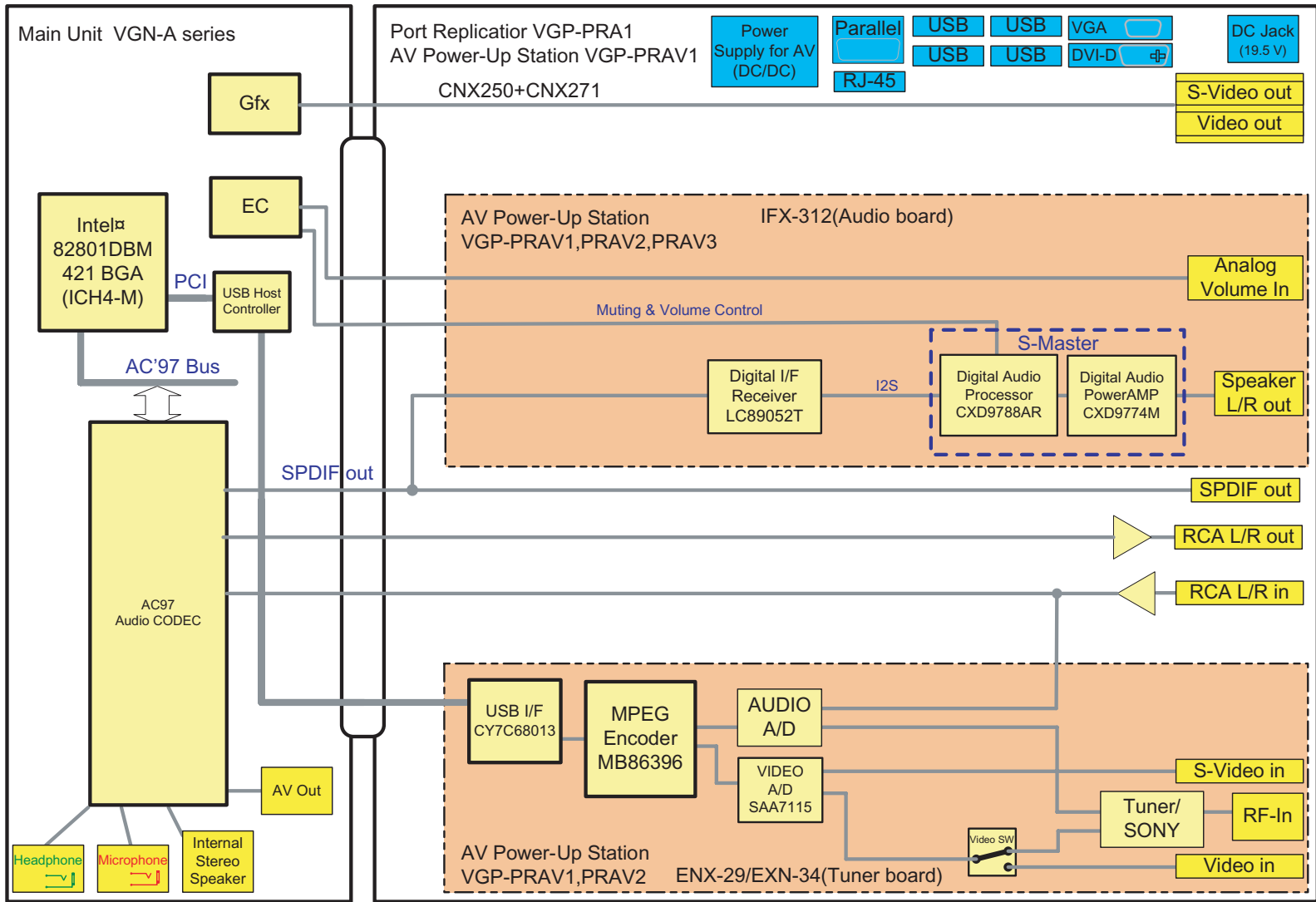
### 2-1. VGN-A series



**Confidential**

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

2-2. Port Replicator (VGP-PRAV)



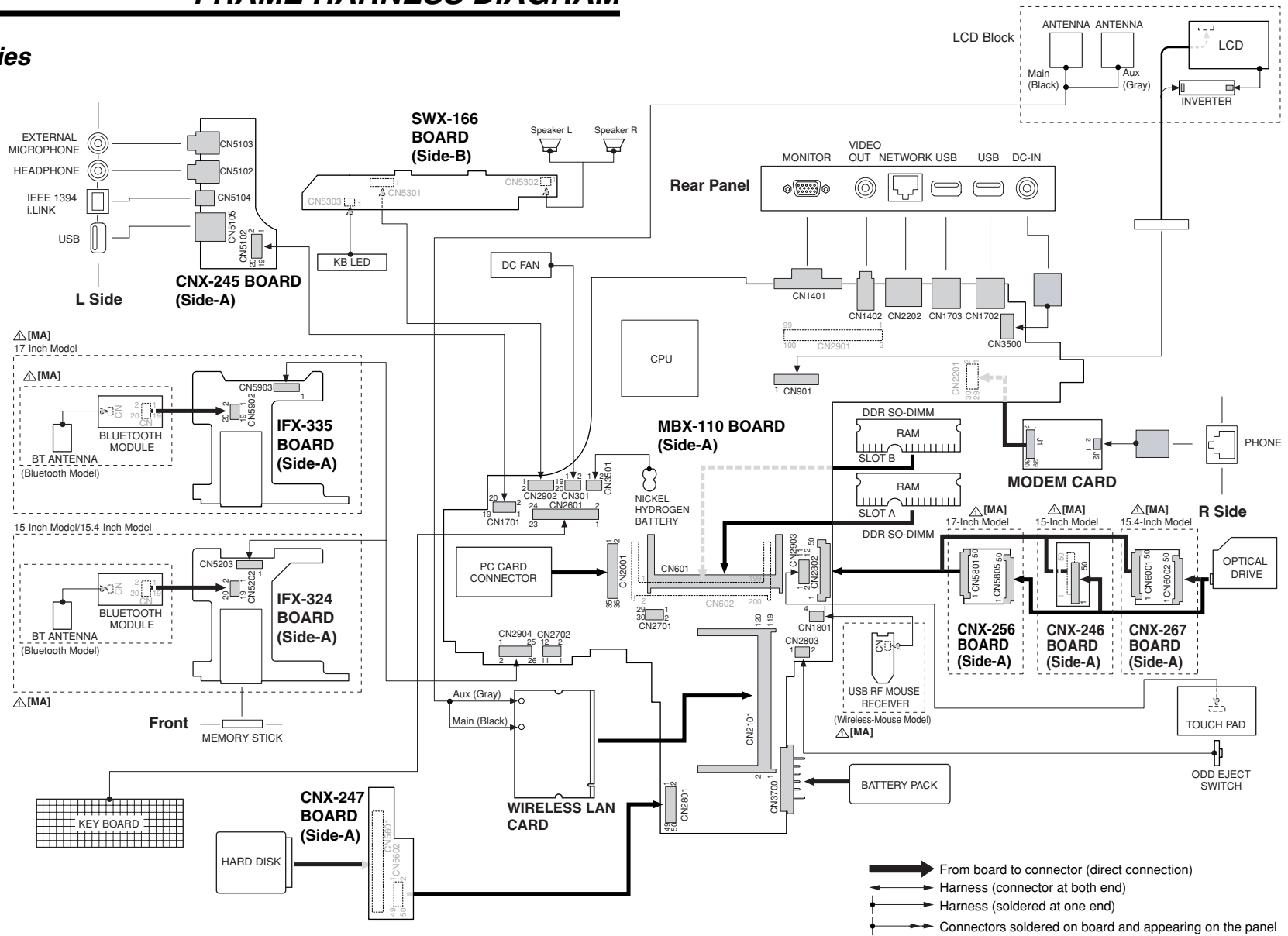
Confidential

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

# CHAPTER 3.

## FRAME HARNESS DIAGRAM

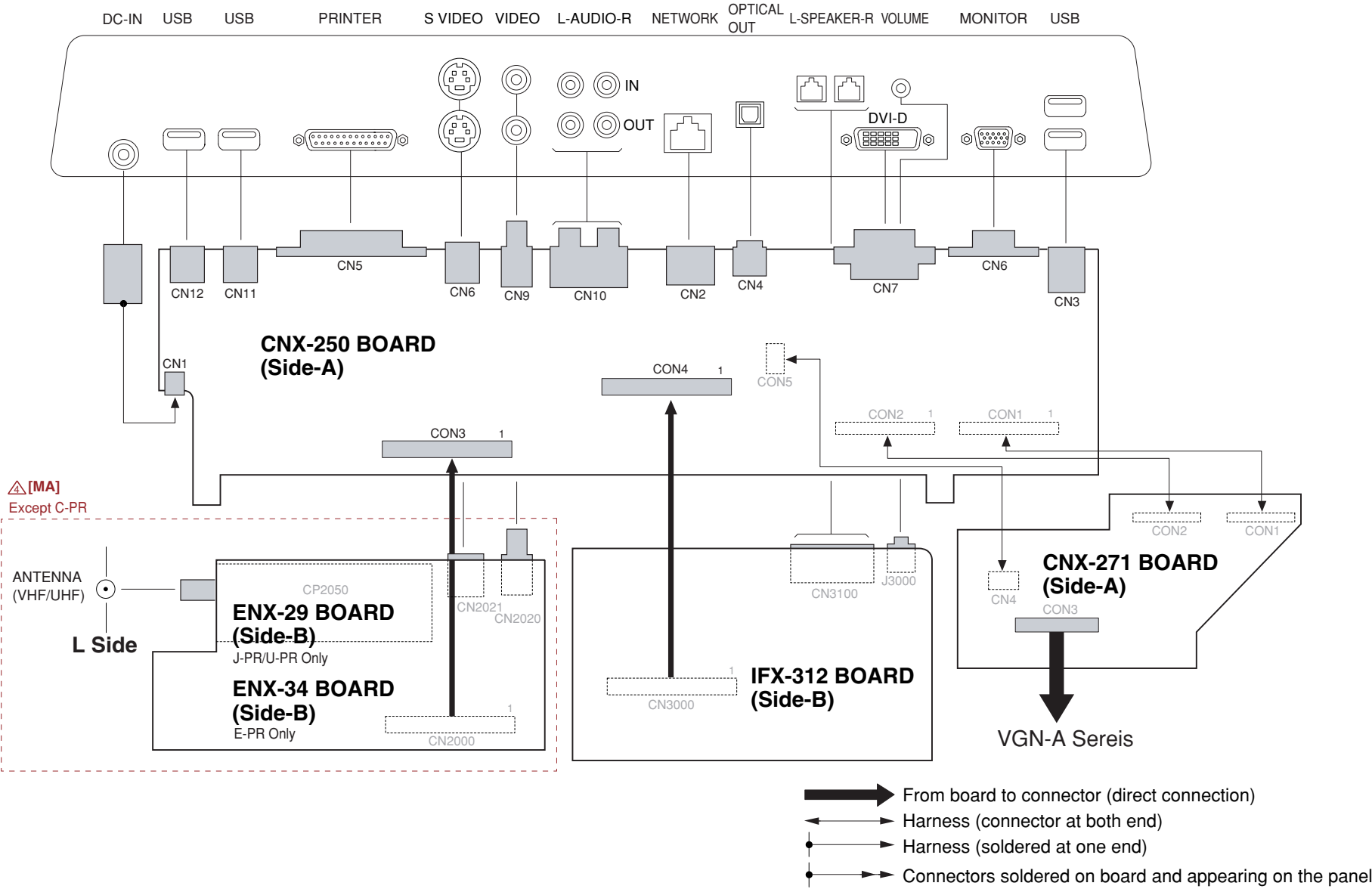
### 3-1. VGN-A series



**Confidential**

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

3-2. Port Replicator (VGP-PRAV)



Confidential

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

# CHAPTER 4.

## EXPLODED VIEWS AND PARTS LIST

• The parts list is compiled by blocks of a palmrest and bottom etc. The sections of the parts list are different depending on the model. Please refer to list of contents shown in the below.

Section Page

### Palmrest

P-1. Palmrest (17-inch Model) .....	4-2
△[MA] P-2. Palmrest (15-inch Model) .....	4-4
P-3. Palmrest (15.4-inch Model) .....	4-6

### Main Board

M-1. Main Board (17-inch Model) .....	4-8
△[MA] M-2. Main Board (15-inch Model) .....	4-10
M-3. Main Board (15.4-inch Model) .....	4-12

### Bottom

B-1. Bottom (17-inch Model) .....	4-14
△[MA] B-2. Bottom (15-inch Model) .....	4-16
B-3. Bottom (15.4-inch Model) .....	4-18

### Optical Drive

D-1. Optical Drive .....	4-20
--------------------------	------

### NOTE:

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
  - The mechanical parts with no reference number in the exploded views are not supplied.
  - When two or more parts are shown, use the part described first as the main part.
  - The parts marked " \$ " are the High Value Modules (HVM).
  - The parts marked " # " are the parts on which barcode label is attached.
  - For the barcode label, refer to CHAPTER 5.
  - The parts marked " & " are the "Customer Replacable Parts (CRP)" that can be replaced by Field Customer Support. Especially the parts with the <&> mark require the special attention to use them. Here fore, check first whether the desired part is one of the targetted parts of the Customer Replacable Parts(CRP), or the non-targetted parts by referring to the exploded view.
  - Regarding the boards of this model, the discrete parts on the boards cannot be replaced. However, Some connectors can be replaced.
  - The model that is accompanied by asterisk (\*) is the CTO model.
- For the equipment configuration, refer to the CTO Information.

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• 分解図と部品表は、パームレスト、ボトムなどのブロックごとに分かれています。機種によって部品表のセクションが異なりますので、詳細は右下の一覧表を参照してください。

Section Page

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L-1. LCD 17-inch WUXGA (Clear Black LCD)	
– Made by SH- .....	4-22
L-2. LCD 17-inch WXGA+ (Clear Black LCD)	
– Made by AU- .....	4-24
△[MA] L-3. LCD 15-inch SXGA+ (Clear Black LCD)	
– Made by SH- .....	4-26
L-4. LCD 15-inch XGA	
– Made by AU- .....	4-28
L-5. LCD 15.4-inch WXGA (Clear Black LCD)	
– Made by HI- .....	4-30

### Accessories

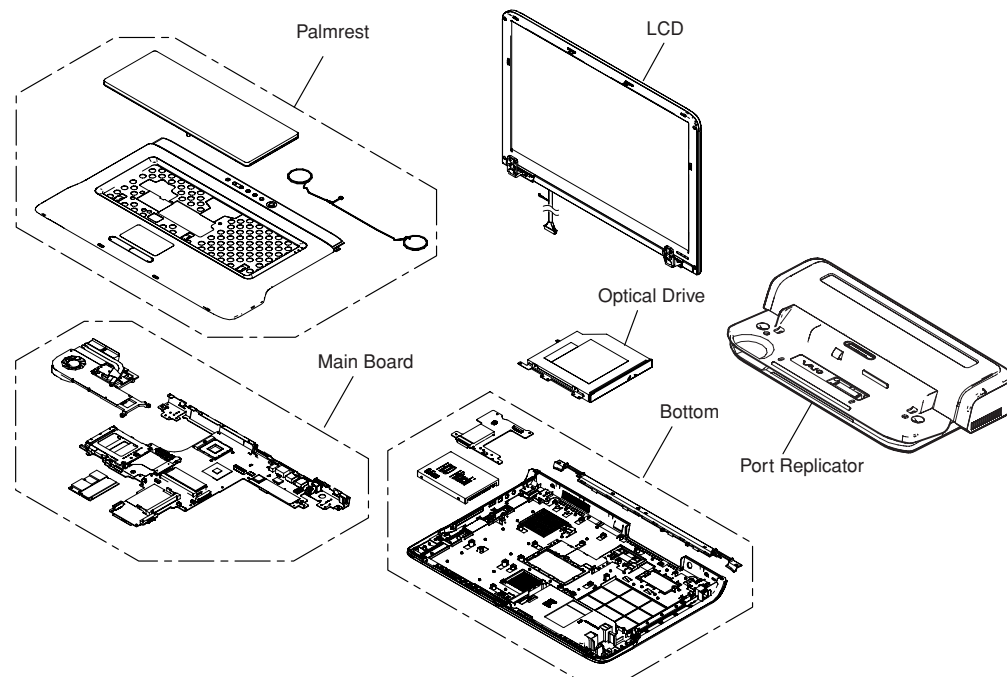
A-1. Accessories .....	4-32
A-2. Accessories .....	4-33

### DIP Switch

### 【使用上の注意】

- \* 印の部品は常備在庫しておりません。
  - 図面番号のない部品は供給しません。
  - 併記部品の場合、上部記載部品をメイン部品として使用してください。
  - 部品名称の前に \$ 印のついた部品は、High Value Module (HVM)です。
  - 商品名称の前に # 印のついた部品は、バーコードラベル貼付部品です。
  - バーコードラベルについてはCHAPTER5を参照してください。
  - 部品名称の前に & 印のついた部品は、お客様窓口などでも交換可能な Customer Replacable Parts (CRP)です。
  - 特に<&>印のついた部品は、使い分けが必要な部品ですので、分解図で Customer Replacable Parts 対象部品か、対象外部部品かを必ず御確認ください。
  - 本モデルの基板については、基板上の各部品の修理は行うことができません。ただし、一部のコネクタについては、修理可能です。
  - 機種名に (\*) がつくのは CTO モデルです。
- 組み合わせについては、CTO Informationを御確認ください。

△ 印の部品、または △ 印付きの点線で囲まれた部品は、安全性を維持するために重要な部品です。従って交換時は、必ず指定の部品を使用してください。



		Palmrest	Main Board	Bottom	Optical Drive	LCD	Accessories	Port Replicator	
J	A51PS1*	P-3	M-3	B-3	D-1	L-5	A-1	A-2 (J-PR)	△[MA]
	A51S1*	P-3	M-3	B-3	D-1	L-5	A-1	A-2 (J-PR)	
	A51PS2*	P-2	M-2	B-2	D-1	L-3	A-1	A-2 (J-PR)	
	A51S2*	P-2	M-2	B-2	D-1	L-3	A-1	A-2 (J-PR)	
	A61B	P-1	M-1	B-1	D-1	L-1,L-2	A-1	A-2 (J-PR)	
A M	A71PS*	P-1	M-1	B-1	D-1	L-1,L-2	A-1	A-2 (J-PR)	△[MA]
	A71S*	P-1	M-1	B-1	D-1	L-1,L-2	A-1	A-2 (J-PR)	
	A230*	P-2	M-2	B-2	D-1	L-3,L-4	A-1	A-2 (U-PR)	
	A230B*	P-2	M-2	B-2	D-1	L-3,L-4	A-1	A-2 (U-PR)	
	A230P*	P-2	M-2	B-2	D-1	L-3,L-4	A-1	A-2 (U-PR)	
	A240*	P-3	M-3	B-3	D-1	L-5	A-1	A-2 (U-PR)	
	A240B*	P-3	M-3	B-3	D-1	L-5	A-1	A-2 (U-PR)	
	A240P*	P-3	M-3	B-3	D-1	L-5	A-1	A-2 (U-PR)	
	A250	P-3	M-3	B-3	D-1	L-5	A-1		
	A260	P-3	M-3	B-3	D-1	L-5	A-1	A-2 (U-PR)	
EU	A270*	P-1	M-1	B-1	D-1	L-1,L-2	A-1	A-2 (U-PR)	△[MA]
	A270B*	P-1	M-1	B-1	D-1	L-1,L-2	A-1	A-2 (U-PR)	
	A270P*	P-1	M-1	B-1	D-1	L-1,L-2	A-1	A-2 (U-PR)	
	A290	P-1	M-1	B-1	D-1	L-1	A-1	A-2 (U-PR)	
	A290F	P-3	M-3	B-3	D-1	L-5	A-1		
	A215M	P-3	M-3	B-3	D-1	L-5	A-1		
	A215Z	P-3	M-3	B-3	D-1	L-5	A-1		
AO	A217M	P-1	M-1	B-1	D-1	L-2	A-1		△[MA]
	A217S	P-1	M-1	B-1	D-1	L-2	A-1	A-2 (E-PR)	
	A295HP	P-3	M-3	B-3	D-1	L-5	A-1		
	A297XP	P-1	M-1	B-1	D-1	L-1	A-1		
	A29GP	P-3	M-3	B-3	D-1	L-5	A-1		
AO	A29SP	P-3	M-3	B-3	D-1	L-5	A-1		△[MA]
	A29LP	P-3	M-3	B-3	D-1	L-5	A-1		
	A21C	P-3	M-3	B-3	D-1	L-5	A-1		
	A23CP	P-2	M-2	B-2	D-1	L-4	A-1		
	A29CP	P-1	M-1	B-1	D-1	L-1	A-1	A-2 (C-PR)	
	A29TP	P-3	M-3	B-3	D-1	L-5	A-1		

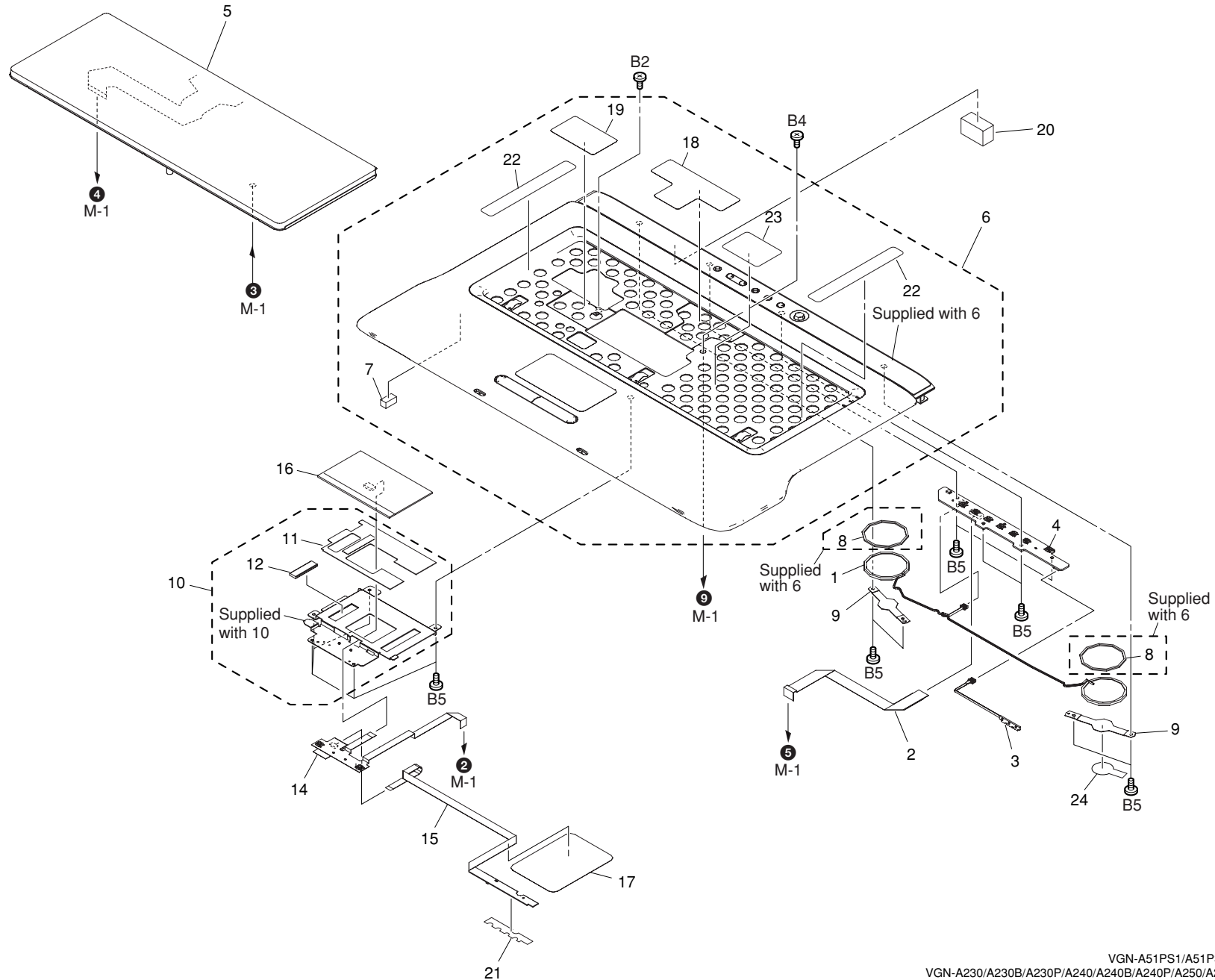
\* : CTO Model

Confidential

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP



## P-1. Palmrest (17-inch Model)



**Confidential**

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

## P-1. Palmrest (17-inch Model)

Ref.No.	Part No.	Description												
1	A-1067-956-A	ASSY SPEAKER												
2	A-1058-413-A	CABLE(20P), FLEXIBLE FLAT												
3	A-1058-417-A	CABLE, KB LED												
4	A-8068-824-A	COMPLETE PWB SWX-166												
6	X-4626-655-2	SE1P PALMREST ASSY												
7	4-682-423-01	SE1 SPONGE BT												
8	2-159-644-01	SE1P SHEET SPEAKER RING												
9	4-682-556-01	SE1P SPEAKER BRACKET												
10	X-4626-657-1	SE1P TP BKT ASSY												
11	4-682-560-01	TOUTCHPAD SHEET												
12	2-103-688-01	SE1P TOUCHPAD GASKET												
14	A-1058-427-A	PWB(12P),FLEXIBLE PRINT												
15	A-1058-428-A	PWB(10P),FLEXIBLE PRINT												
16	1-796-911-12	WIDE TOUCH PAD												
17	2-103-691-01	SE1P BATT MASK MYLAR A												
18	2-103-689-01	SE1P KEYBOARD BRACKET MYLAR A												
19	2-103-690-01	SE1P KEYBOARD BRACKET MYLAR B												
20	2-103-692-01	SE1P PALMREST GASKET												
21	2-159-642-01	SE1P LED PORON												
22	2-159-643-01	SE1P KEYBOARD SUPPORT MYLAR												
23	2-159-977-01	SE1P KEYBOARD SUPPORT MYLAR B												
24	2-548-305-01	SE1 MYLAR SPEAKER BKT												
B2	4-672-836-21	SCREW, M2 SPECIAL HEAD,EG GRIP												
B4	2-048-596-02	SCREW, +B EG GRIP												
B5	4-672-836-11	SCREW, M2 SPECIAL HEAD,EG GRIP												



Ref.No Part No.

Description

5

1-478-650-11

KEYBOARD UNIT (JP)

1-478-650-21

KEYBOARD UNIT (US)

1-478-640-11

KEYBOARD UNIT (GB)

1-478-640-21

KEYBOARD UNIT (DE)

1-478-640-31

KEYBOARD UNIT (CH)

1-478-640-41

KEYBOARD UNIT (FR)

1-478-640-51

KEYBOARD UNIT (IT)

1-478-640-61

KEYBOARD UNIT (ES)

1-478-640-71

KEYBOARD UNIT (SE)

1-478-640-81

KEYBOARD UNIT (PT)

- This parts list contains two different types of parts.  
The first type is the parts that are common to all models.  
The other type is the parts that are different depending on each model.
- This model that is accompanied by asterisk (\*) is the CTO model.

- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。
- 機種名に(\*)がつくのは CTO モデルです。



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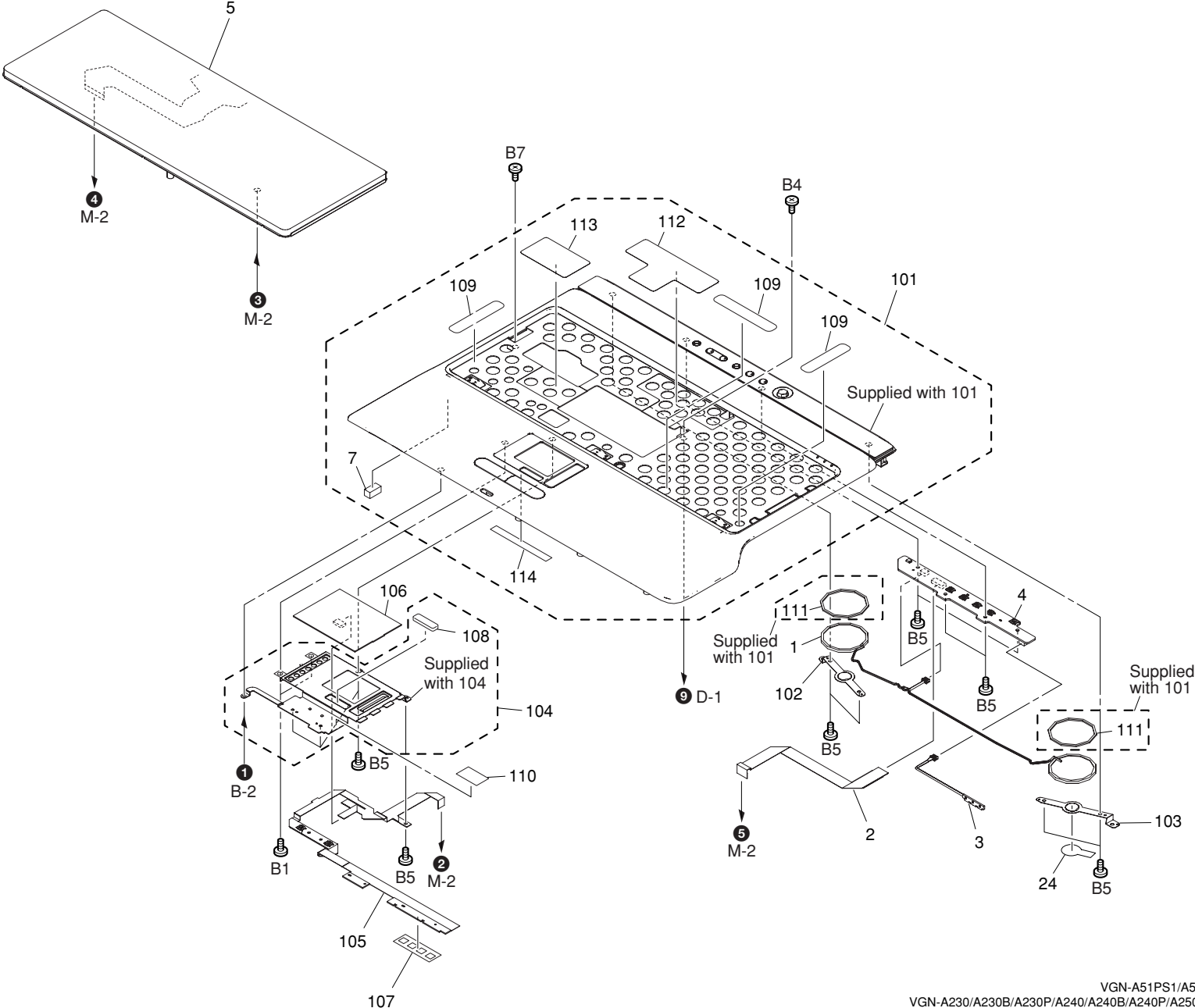
[MA]

[MA]

Confidential

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

P-2. Palmrest (15-inch Model)



△[MA]

Confidential

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

P-2. Palmrest (15-inch Model)

Ref.No.	Part No.	Description
1	A-1067-956-A	ASSY SPEAKER
2	A-1058-413-A	CABLE(20P), FLEXIBLE FLAT
3	A-1058-417-A	CABLE, KB LED
4	A-8068-824-A \$	COMPLETE PWB SWX-166
7	4-682-423-01	SE1 SPONGE BT
24	2-548-305-01	SE1 MYLAR SPEAKER BKT
101	X-4626-648-1	SE1 15S PALM SUB ASSY
102	4-682-425-01	SE1 BRACKET SPEAKER L
103	4-682-424-01	SE1 BRACKET SPEAKER R
104	X-4626-724-1	SE1 TOUCHPAD BRACKET ASSY
105	A-1058-423-A	PWB(12P),FLEXIBLE PRINT
106	1-796-319-72	PAD, TOUCH
107	2-103-455-01	SE1 TOUCHPAD FPC PORON
108	2-103-022-01	SE1 KEYBOARD BRACKET GASKET
109	2-159-976-01	SE1 MAYLAR KEYBOARD
110	2-159-786-01	SE1 MYLAR TOUCH-PAD FPC
111	4-682-941-01	SE1 RING GLUE
112	2-103-453-01	SE1 MYLAR KEYBOARD BRACKET U
113	2-103-454-01	SE1 MYLAR KEYBOARD BRACKET L
114	2-176-528-01	SE1 TOUCHPAD TAPE
B1	4-672-836-01	SCREW,M2 SPECIAL HEAD EG GRIP
B4	2-048-596-02	SCREW, +B EG GRIP
B5	4-672-836-11	SCREW, M2 SPECIAL HEAD,EG GRIP
B7	4-644-637-21	GRIP, M2 EG



[MA]

			J		AM		AO
			A51PS2*	A51S2*	A230*	A230B*	A230P*
			A230CP				
Ref.No.	Part No.	Description					
5	1-478-650-11	KEYBOARD UNIT (JP)	●	●			
	1-478-650-21	KEYBOARD UNIT (US)			●	●	●



[MA]



[MA]



[MA]

- This parts list contains two different types of parts.  
The first type is the parts that are common to all models.  
The other type is the parts that are different depending on each model.
- This model that is accompanied by asterisk (\*) is the CTO model.
- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。
- 機種名に(\*)がつくのは CTO モデルです。

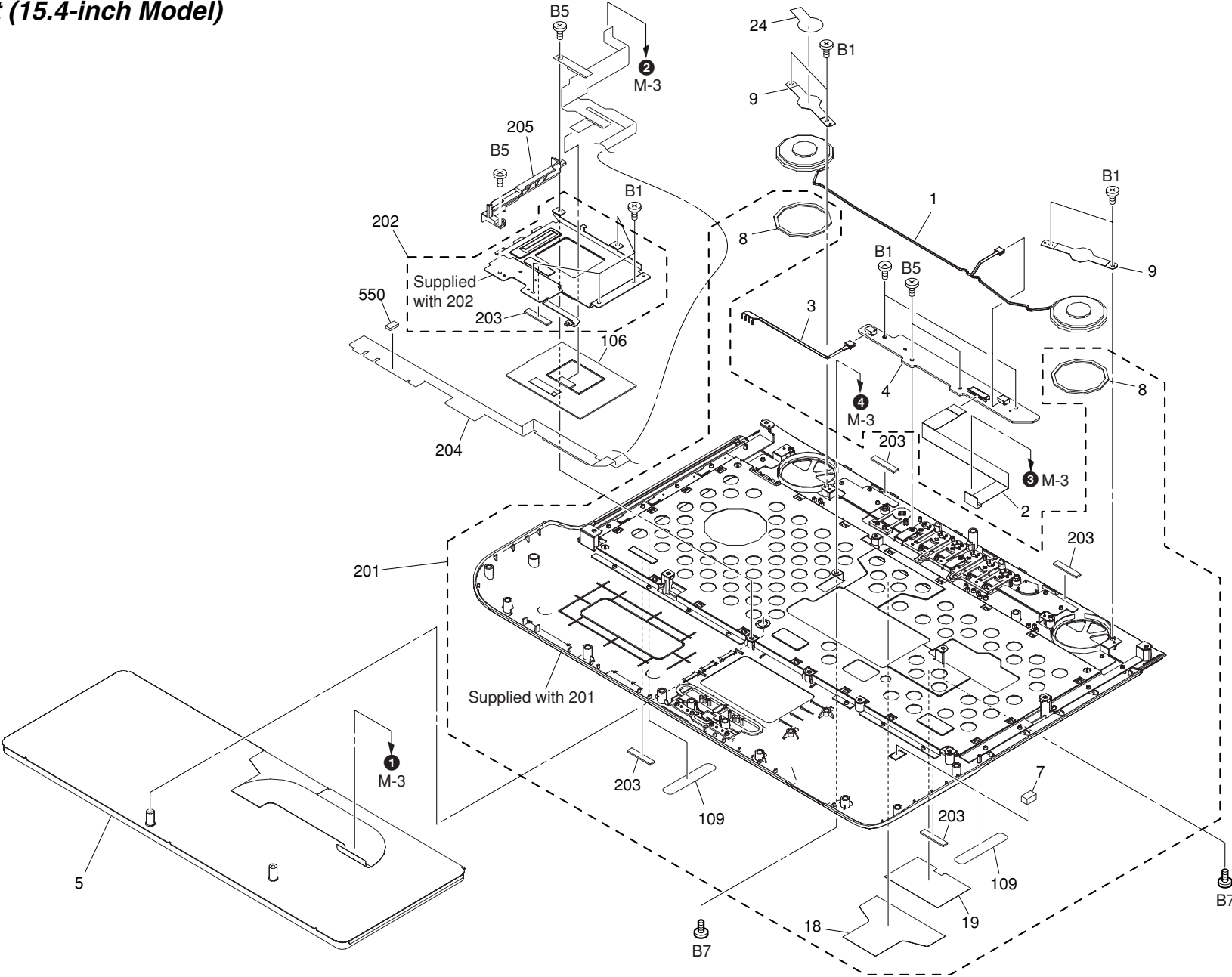


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Confidential

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

P-3. Palmrest (15.4-inch Model)



[MA]

Confidential

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29GP/A29LP/A29SP/A29TP

## P-3. Palmrest (15.4-inch Model)

Ref.No.	Part No.	Description
1	A-1067-956-A	SE/SE+ SPEAKER SET
2	A-1058-413-A	CABLE(20P), FLEXIBLE FLAT
3	A-1058-417-A	CABLE, KB LED
4	A-8068-824-A \$	COMPLETE PWB SWX-166
7	4-682-423-01	SE1 SPONGE BT
8	2-159-644-01	SE1P SHEET SPEAKER RING
9	4-682-556-01	SE1P SPEAKER BRACKET
18	2-103-689-01	SE1P KEYBOARD BRACKET MYLAR A
19	2-103-690-01	SE1P KEYBOARD BRACKET MYLAR B
24	2-548-305-01	SE1 MYLAR SPEAKER BKT
106	1-796-319-72	PAD, TOUCH
109	2-159-976-01	SE1 MYLAR KEYBOARD
201	X-2021-746-1	SEM PALM SUB ASSY
202	X-2021-752-1	SEM TOUCHPAD BRACKET ASSY
203	4-676-956-01	GASKET T/P CONTACT
204	A-1067-142-A	TP(M), FLEXIBLE PRINT
205	2-050-875-01	SEM T/P HOOK
550	2-159-787-01	SE1 SPONGE LENS
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD, EG GRIP
B5	4-672-836-11	SCREW, M2 SPECIAL HEAD, EG GRIP
B7	4-644-637-21	GRIP M2 EG



[MA]



[MA]



[MA]



[MA]

			J		AM						EU			AO				
			A51PS1*	A51S1*	A260	A250	A240*	A240B*	A240P*	A290F	A295HP	A215M	A215Z	A29GP	A29SP	A29LP	A29TP	A21C
Ref.No.	Part No.	Description																
5	1-478-650-11	KEYBOARD UNIT (JP)	●	●														
	1-478-650-21	KEYBOARD UNIT (US)			●	●	●	●	●				●					●
	1-478-650-31	KEYBOARD UNIT (LA)																
	1-478-650-41	KEYBOARD UNIT (KR)							●							●		
	1-478-650-51	KEYBOARD UNIT (TH)												●				
	1-478-650-61	KEYBOARD UNIT (TW)															●	
	1-478-640-11	KEYBOARD UNIT (GB)								●	●	●						
	1-478-640-21	KEYBOARD UNIT (DE)								●	●	●	●					
	1-478-640-31	KEYBOARD UNIT (CH)								●	●	●						
	1-478-640-41	KEYBOARD UNIT (FR)								●	●	●						
	1-478-640-51	KEYBOARD UNIT (IT)								●	●	●	●					
	1-478-640-61	KEYBOARD UNIT (ES)								●	●	●						
	1-478-640-71	KEYBOARD UNIT (SE)								●								
	1-478-640-81	KEYBOARD UNIT (PT)								●								



[MA]



[MA]



[MA]



[MA]



[MA]



[MA]

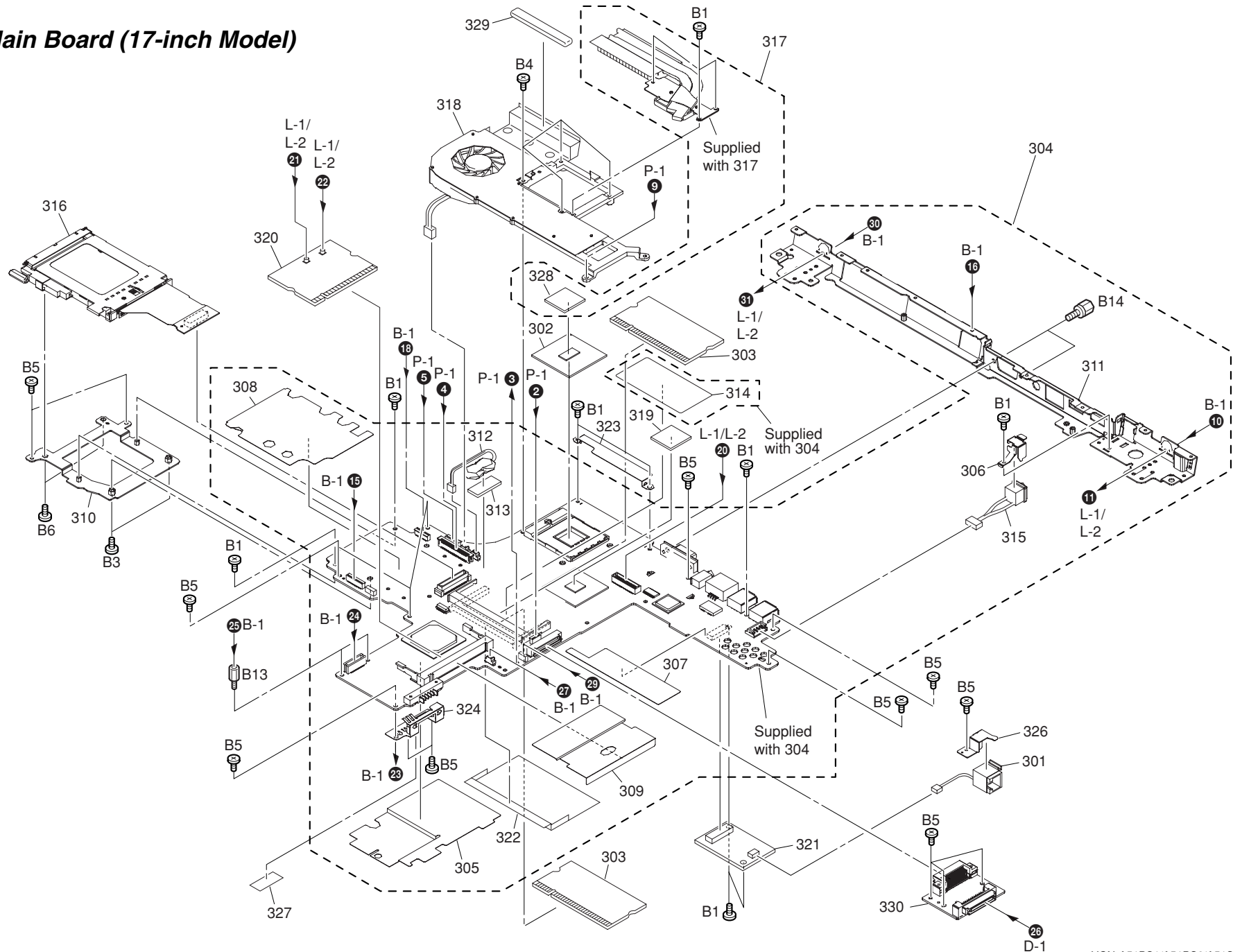
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- 機種名に(\*)がつくのは CTO モデルです。



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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

# M-1. Main Board (17-inch Model)



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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

## M-1. Main Board (17-inch Model)

Ref.No.	Part No.	Description
301	A-1058-426-A	CABLE, RJ11
304	A-1083-174-A \$ #	COMPLETE PWB MBX-110 SE+
305	4-682-945-01	SE1 2ND FAN MYLAR
306	X-2022-962-2	SE1 DC JACK HOLDER ASSY
307	4-682-478-01	SE1 ODD INSULATOR
308	4-682-942-01	SE1 PCMCIA MYLAR
309	4-682-475-01	SE1 SHEET MINI-PCI
310	4-682-569-01	SE1P CARD BOX BRACKET
311	X-4626-661-1	SE1P IO BRACKET ASSY
312	1-756-038-11	BATTERY,NICKEL HYDROGEN
313	4-642-711-11	SHEET (BATTERY), ADHESIVE
314	4-668-307-01	SHEET DIMM
315	A-1058-414-A	HARNESS,DC
316	A-1067-298-A	CONNECTOR(SE+),PC CARD
317	A-8119-893-A	SE1 FIN THERMAL MODULE
318	A-8119-892-A \$	SE1 THERMAL MODULE
319	2-103-694-01	SE1P VGA THERMAL PAD
321	1-761-606-14 #	CARD,MODEM
322	4-682-465-01	SE1 MYLAR DOOR DIMM
323	2-103-444-01	SE1 EMI SPRING FIN
324	X-2022-963-1	SE1 EMI SPRING BATT-1 ASSY
326	4-683-063-01	RJ11 BKT
327	2-176-527-01	2ND FAN MYLAR-1
328	2-103-452-01	CPU THERMAL PAD
329	2-103-693-01	SE1P THERMAL MODULE GASKET
330	A-8068-828-A	COMPLETE PWB CNX-256
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B3	4-672-834-41	SCREW, +B EG GRIP
B4	2-048-596-02	SCREW, +B EG GRIP
B5	4-672-836-11	SCREW, M2 SPECIAL HEAD,EG GRIP
B6	4-656-703-01	SCREW, M2
B13	2-103-443-01	SE1 HEX2-5+7
B14	4-635-966-01	SCREW(HEX)

	Ref.No.	Part No.	Description	J			AM				EU			AO
				A61B	A71PS*	A71S*	A290	A270*	A270B*	A270P*	A297XP	A217S	A217M	A29CP
△	[MA]	302	6-706-559-01	IC RH80536GC0412MSL7EM(P-M2.0)	●	●	●	●	●	●				●
△	[MA]		6-600-306-01	IC RH80536GC0332MSL7EN(P-M1.8)		●	●				●			
			6-600-343-01	IC RH80536GC0292MSL7EP(P-M1.7)			●	●	●	●		●		
△	[MA]		6-600-355-01	IC RH80536GC0252MSL7EG(P-M1.6)		●	●	●	●	●			●	
△	[MA]		6-600-368-01	IC RH80536GC0212MSL7GL(P-M 1.5)			●	●	●	●				
△	[MA]		6-706-572-01	IC RH80535NC017512SL6N6(Cel-M1.4)		●	●	●	●	●				
△	[MA]		6-707-262-01	IC RH80536NC0131M (Cel-M1.3)			●	●	●	●				
△	[MA]	303	6-706-244-01	IC EBD11UD8ADDA-6B(1GB)		●	●	●	●	●				
			6-706-337-01	IC M470L6524BT0-CB3(512MB)	●	●	●	●	●	●	●			●
△	[MA]		6-707-051-01	IC MT8VDDT3264HDY-335F4 (256MB)			●	●	●	●		●	●	
△	[MA]	320	1-761-864-14 #	WIRELESS LAN CARD			●	●	●	●				
△	[MA]		1-761-864-23 #	WIRELESS LAN CARD	●									
△	[MA]		1-761-864-33 #	WIRELESS LAN CARD							●	●	●	●
△	[MA]		1-761-891-12 #	WIRELESS LAN CARD		●	●							
△					[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]

- 1) The DIP switch setting, refer to page 4-35 "DIP switch".
  - 2) The CPU THERMAL PAD (Ref.328) cannot be re-used if it is removed once.  
When the FIN THERMAL MODULE (Ref.317) is removed, be sure to replace it with the new one.
  - 3) When change the CPU (Ref.302), refer to "5-2 Replacing the CPU "in CHAPTER 5.
- 1) DIP スイッチの設定は、4-35 頁「DIP Switch」を参照してください。
  - 2) CPU THERMAL PAD (Ref.328) は、一度取り外したものを再利用することはできません。  
FIN THERMAL MODULE (Ref.317) をはずした場合には、必ず新しいものを交換してください。
  - 3) CPU (Ref.302) を交換する際は、CHAPTER 5、「5-2 CPU の交換」を参照してください。

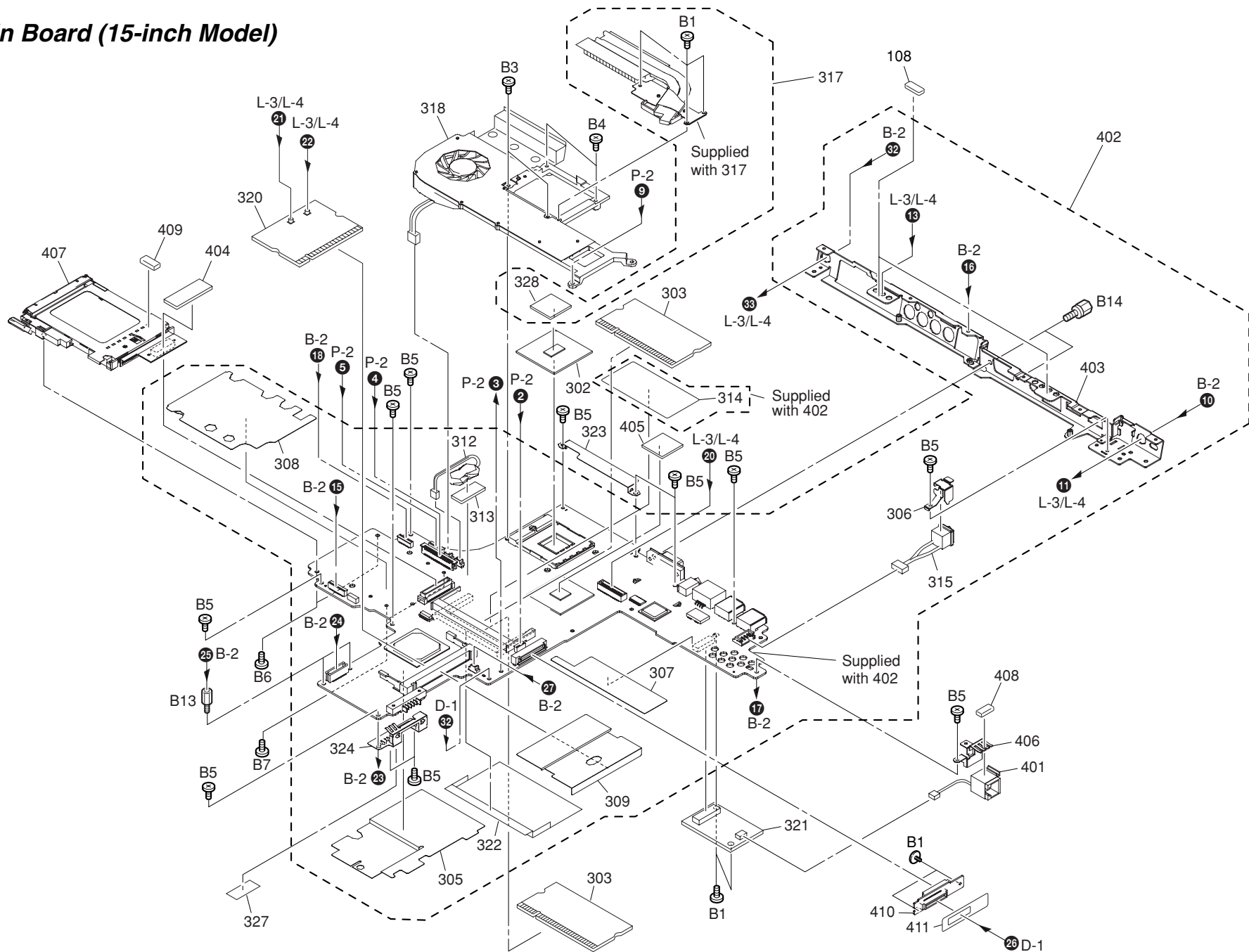
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- 機種名に(\*)がつくのは CTO モデルです。

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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP



## M-2. Main Board (15-inch Model)



△ [MA]

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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
 VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
 VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
 VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

## M-2. Main Board (15-inch Model)

Ref.No.	Part No.	Description
108	2-103-022-01	KEYBOARD BRACKET GASKET
305	4-682-945-01	SE1 2ND FAN MYLAR
306	X-2022-962-2	SE1 DC JACK HOLDER ASSY
307	4-682-478-01	SE1 ODD INSULATOR
308	4-682-942-01	SE1 PCMCIA MYLAR
309	4-682-475-01	SE1 SHEET MINI-PCI
312	1-756-038-11	BATTERY,NICKEL HYDROGEN
313	4-642-711-11	SHEET (BATTERY), ADHESIVE
314	4-668-307-01	SHEET DIMM
315	A-1058-414-A	HARNESS,DC
317	A-8119-893-A	SE1 FIN THERMAL MODULE
318	A-8119-892-A \$	SE1 THERMAL MODULE
321	1-761-606-14 #	MODEM CARD
322	4-682-465-01	SE1 MYLAR DOOR DIMM
323	2-103-444-01	EMI SPRING FIN
324	X-2022-963-1	EMI SPRING BATT-1 ASSY
327	2-176-527-01	2ND FAN MYLAR-1
328	2-103-452-01	CPU THERMAL PAD
401	A-1058-422-A	CABLE, RJ11
402	A-1083-176-A \$ #	COMPLETE PWB MBX-110 SE2
403	X-4626-725-1	SE1 BRACKET I/O ASSY
404	4-682-943-01	SE1 CARDBUS CONN SPONGE
405	4-676-423-01	VGA THERMAL PAD
406	4-682-442-01	SE1 RJ11 BRACKET
407	A-1067-297-A	CONNECTOR(SE),PC CARD
408	2-103-446-01	SE1 GASKET RJ11
409	2-103-445-01	SE1 GASKET CARD BOX
410	A-8068-826-A	COMPLETE PWB CNX-246
411	4-682-950-01	SE1 ODD BOARD MYLAR
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B3	4-672-834-41	SCREW, +B EG GRIP
B4	2-048-596-02	SCREW, +B EG GRIP
B5	4-672-836-11	SCREW, M2 SPECIAL HEAD,EG GRIP
B6	4-656-703-01	SCREW, M2
B7	4-644-637-21	GRIP, M2 EG
B13	2-103-443-01	SE1 HEX2-5+7
B14	4-635-966-01	SCREW (HEX)



[MA]  
[MA]

			J		AM			AO
			A51PS2*	A51S2*	A230*	A230B*	A230P*	A230CP
Ref.No.	Part No.	Description						
302	6-706-559-01	IC RH80536GC0412MSL7EM(P-M2.0)	●	●	●	●	●	
	6-600-306-01	IC RH80536GC0332MSL7EN(P-M1.8)	●	●	●	●	●	
	6-600-343-01	IC RH80536GC0292MSL7EP(P-M1.7)			●	●	●	
	6-600-355-01	IC RH80536GC0252MSL7EG(P-M1.6)	●	●	●	●	●	●
	6-600-368-01	IC RH80536GC0212MSL7GL(P-M 1.5)			●	●	●	
	6-706-572-01	IC RH80535NC017512SL6N6(Cel-M1.4)	●	●	●	●	●	
	6-707-262-01	IC RH80536NC0131M (Cel-M1.3)			●	●	●	
303	6-706-244-01	IC EBD11UD8ADDA-6B(1GB)	●	●	●	●	●	
	6-706-337-01	IC M470L6524BT0-CB3(512MB)	●	●	●	●	●	
	6-707-051-01	IC MT8VDDT3264HDY-335F4 (256MB)				●	●	●
320	1-761-864-14 #	WIRELESS LAN CARD			●	●	●	
	1-761-864-23 #	WIRELESS LAN CARD	●	●				
	1-761-864-33 #	WIRELESS LAN CARD						●

△  
[MA]

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[MA]

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[MA]

- 1) The DIP switch setting, refer to page 4-35 "DIP switch".
- 2) The CPU THERMAL PAD (Ref.328) cannot be re-used if it is removed once.  
When the FIN THERMAL MODULE (Ref.317) is removed, be sure to replace it with the new one.
- 3) When change the CPU (Ref.302), refer to "5-2 Replacing the CPU "in CHAPTER 5.

- 1) DIP スイッチの設定は、4-35 頁「DIP Switch」を参照してください。
- 2) CPU THERMAL PAD (Ref.328) は、一度取り外したものを再利用することはできません。  
FIN THERMAL MODULE (Ref.317) をはずした場合には、必ず新しいものを交換してください。
- 3) CPU (Ref.302) を交換する際は、CHAPTER 5、「5-2 CPU の交換」を参照してください。

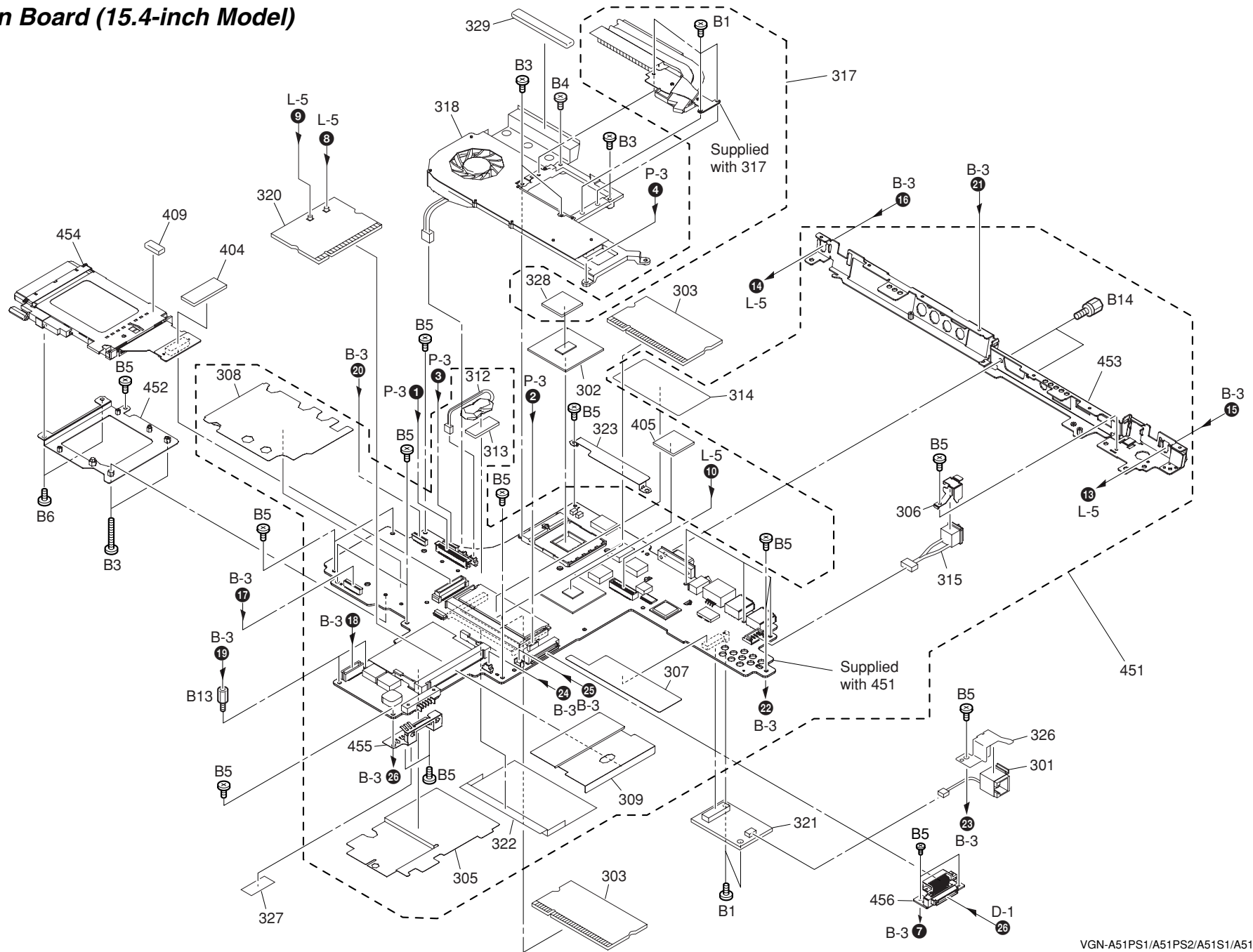
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△ [MA]

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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

### ***M-3. Main Board (15.4-inch Model)***



## M-3. Main Board (15.4-inch Model)

Ref.No.	Part No.	Description			J		AM								AO					
					A51PS1*	A51S1*	A260	A250	A240*	A240B*	A240P*	A290F	A295HP	A215M	A215Z	A29GP	A29SP	A29LP	A29TP	A21C
301	A-1058-426-A	CABLE, RJ11																		
305	4-682-945-01	SE1 2ND FAN MYLAR																		
306	X-2022-962-2	SE1 DC JACK HOLDER ASSY																		
307	4-682-478-01	SE1 ODD INSULATOR																		
308	4-682-942-01	SE1 PCMCIA MYLAR																		
		Ref.Nc Part No.		Description																
		302 6-706-559-01		IC RH80536GC0412MSL7EM(P-M2.0)	●	●			●	●	●									
		6-600-306-01		IC RH80536GC0332MSL7EN(P-M1.8)	●	●			●	●	●									
		6-600-343-01		IC RH80536GC0292MSL7EP(P-M1.7)					●	●	●		●		●					
		6-600-355-01		IC RH80536GC0252MSL7EG(P-M1.6)	●	●	●	●	●	●	●	●		●			●	●	●	
		6-600-368-01		IC RH80536GC0212MSL7GL(P-M 1.5)					●	●	●									●
		6-706-572-01		IC RH80535NC017512SL6N6(Cel-M1.4)	●	●			●	●	●									
		6-707-262-01		IC RH80536NC0131M (Cel-M1.3)					●	●	●									
		303 6-706-244-01		IC EBD11UD8ADDA-6B(1GB)	●	●			●	●	●									
		6-706-337-01		IC M470L6524BT0-CB3(512MB)	●	●			●	●	●		●				●	●	●	
		6-707-051-01		IC MT8VDDT3264HDY-335F4 (256MB)			●	●	●	●	●	●		●	●					●
		320 1-761-864-14	#	WIRELESS LAN CARD			●	●	●	●	●	●								
		1-761-864-23	#	WIRELESS LAN CARD	●	●			●	●	●	●								
		1-761-864-33	#	WIRELESS LAN CARD									●	●	●		●	●		●
		1-761-864-15	#	WIRELESS LAN CARD																
326	4-683-063-01	RJ11 BKT			⚠	⚠						⚠						⚠	⚠	⚠
327	2-176-527-01	SE1 2ND FAN MYLAR-1			[MA]	[MA]														
328	2-103-452-01	CPU THERMAL PAD																		
329	2-103-693-01	SE1P THERMAL MODULE GASKET																		
404	4-682-943-01	CARDBUS CONN ,SPONGE																		
405	4-676-423-01	VGA THERMAL PAD																		
409	2-103-445-01	SE1 GASKET CARD BOX																		
451	A-1083-175-A	COMPLETE PWB MBX-110 SE2M	\$ #																	
452	2-050-884-01	SEM BRACKET CARD BOX																		
453	X-2021-754-1	SEM BRACKET I/O ASSY																		
454	A-1067-143-A	PC-CARD(M),FLEXIBLE PRINT																		
455	X-2023-152-1	SEM EMI SPRING BATT-1 ASSY																		
456	A-1067-139-A	COMPLETE PWB CNX-267																		
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP																		
B3	4-672-834-41	SCREW, +B EG GRIP																		
B4	2-048-596-02	SCREW, +B EG GRIP																		
B5	4-672-836-11	SCREW, M2 SPECIAL HEAD,EG GRIP																		
B6	4-656-703-01	SCREW, M2																		
B13	2-103-443-01	SE1 HEX2-5+7																		
B14	4-635-966-01	SCREW(HEX)																		

1) The DIP switch setting, refer to page 4-35 "DIP switch".

2) The CPU THERMAL PAD (Ref.328) cannot be re-used if it is removed once.  
When the FIN THERMAL MODULE (Ref.317) is removed, be sure to replace it with the new one.

3) When change the CPU (Ref.302), refer to "5-2 Replacing the CPU "in CHAPTER 5.

1) DIPスイッチの設定は、4-35 頁「DIP Switch」を参照してください。

2) CPU THERMAL PAD (Ref.328) は、一度取り外したものを再利用することはできません。  
FIN THERMAL MODULE (Ref.317) をはずした場合には、必ず新しいものを交換してください。

3) CPU (Ref.302) を交換する際は、CHAPTER 5、「5-2 CPU の交換」を参照してください。

• This parts list contains two different types of parts.  
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• This model that is accompanied by asterisk (\*) is the CTO model.

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• 機種名に(\*)がつくのは CTO モデルです。

- 1) The DIP switch setting, refer to page 4-35 "DIP switch".
- 2) The CPU THERMAL PAD (Ref.328) cannot be re-used if it is removed once.  
When the FIN THERMAL MODULE (Ref.317) is removed, be sure to replace it with the new one.
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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP



## B-1. Bottom (17-inch Model)

Ref.No.	Part No.	Description
7	4-682-423-01	SE1 SPONGE BT
501	A-1058-406-A	CABLE(26P), FLEXIBLE FLAT
502	A-1058-416-A	CABLE, ODD EJECT
504	A-8068-827-A \$	COMPLETE PWB CNX-247
505	A-8068-830-A \$ #	COMPLETE PWB IFX-335
506	X-4626-658-2	SE1P BOTTOM ASSEY
507	4-682-454-01	SE1 15S BATT BUTTON
508	4-682-455-01	SE1 15S BATT BUTTON3
509	4-682-460-01	SE1 15S DOOR DOCK
510	4-682-457-01	SE1 BATT LOCK
511	4-683-040-01	SE1 DOCKING HOOK MYLAR
512	4-682-443-01	& SE1 FOOT FRONT
513	4-682-444-01	& SE1 FOOT FRONT CENTER
514	4-682-445-01	SE1 FOOT REAR
515	4-682-456-01	SE1 LATCH BATT
516	4-682-459-01	SE1 LATCH BATT SPRING
517	4-682-479-01	SE1 EMI SPRING BATT
518	4-682-458-02	SE1 LATCH LEVER
519	4-682-476-01	SE1 SW BRACKET
520	2-103-697-01	SE1P HDD MYLAR
521	2-103-698-01	SE1P INSULATION AUDIO BD
522	4-682-447-01	SE1 LCD LATCH DETECTOR
523	X-4626-721-1	& SE1 DOOR I/O ASSY
524	X-4626-653-1	& SE1 DIMM DOOR ASSY
525	X-4626-720-1	& SE1 BATTERY DOOR ASSY
526	2-025-132-01	& LABEL BATTERY
527	4-682-466-01	& SE1 15S DOOR MODEM
535	4-682-580-01	SE1P BRACKET HDD-L
536	4-682-581-01	SE1P BRACKET HDD-R
538	4-682-568-01	SE1P DISPLAY BASE
541	2-103-696-01	SE1P SHEET BLUETOOTH ANT
542	2-103-695-01	SE1P BATT MASK MYLAR B
543	A-8068-825-A \$	COMPLETE PWB CNX-245
544	A-1058-429-A	PWB(20P),FLEXIBLE PRINT
545	4-682-462-01	SE1 15S MODEM R
547	2-067-843-01	EMI SPRING HDD
550	2-159-787-01	SE1 SPONGE LENS
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B2	4-672-836-21	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B3	4-672-834-41	<&> SCREW, +B EG GRIP
B4	2-048-596-01	<&> SCREW, +B EG GRIP
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B9	2-159-307-01	<&> SCREW, M2.6+B EG GRIP
B11	4-672-839-01	HEAD,M3 FLAT
B12	4-672-840-01	SCREW, M2 TAPPING,FLAT HEAD
B18	4-672-834-21	<&> SCREW, +B EG GRIP
B23	3-254-029-11	SCREW
B24	4-672-834-71	<&> SCREW,+B EG GRIP

				J			AM			EU		AO		
				A61B	A71PS*	A71S*	A290	A270*	A270B*	A270P*	A297XP	A217S	A217M	A29CP
	Ref.No.	Part No.	Description											
▲	[MA]	503	A-1058-408-A		●	●	●		●	●	●	●	●	●
	[MA]	528	4-682-449-01						●	●	●	●	●	
		4-682-449-11	SE1 LENS PANEL CTO(W/WL No-BT)		●	●	●	●						●
▲	[MA]	529	4-683-065-01		●	●	●					●	●	
		4-683-066-01	SE1P BUTTON COVER RF(W/W-Mouse)		●	●	●					●	●	
▲	[MA]	530	4-683-066-01				●		●	●	●			●
▲		4-682-582-01	SE1P PANEL RF CTO(No-W-Mouse)						●	●	●	●	●	
▲	[MA]	531	4-682-582-01		●	●	●				●	●	●	
▲	[MA]	532	4-682-583-01		●	●	●		●	●	●	●	●	
▲	[MA]	533	1-796-949-11		●	●	●				●	●	●	
▲	[MA]	534	A-8067-943-A \$ #			●	●		●	●	●	●	●	
▲	[MA]		A-1062-140-A \$ #			●	●		●	●	●	●	●	
▲	[MA]		A-1083-189-A \$ #		●	●	●							●
▲	[MA]		A-1065-502-A \$ #			●	●		●	●	●			
		A-1083-188-A \$ #	HDD (MHT2080AT-80GB) (S)			●	●		●	●	●			
▲	[MA]		A-1083-186-A \$ #			●	●		●	●	●	●		
▲	[MA]	539	1-805-554-11						●	●	●		●	
▲	[MA]	540	A-1058-407-A						●	●	●	●	●	
		548	4-682-446-01		●	●	●	●		●	●	●	●	●
			SE1 SWICH W LAN(W/WL)						●	●	●	●	●	●
					▲	▲	▲		▲	▲	▲	▲	▲	▲
					[MA]	[MA]	[MA]		[MA]	[MA]	[MA]	[MA]	[MA]	[MA]

- △ [MA] —
- 1) The parts of Ref.539 and Ref.540 are used in the BLUETOOTH installation models.
  - 2) Ref.503, 532 and Ref.533 are used only in the models supplied with the Wireless-Mouse.
- 1) Ref.539 と Ref.540 は、BLUETOOTH 搭載モデル用の部品です。
- 2) Ref.503, 532, 533 は、Wireless-Mouse 付モデル用の部品です。

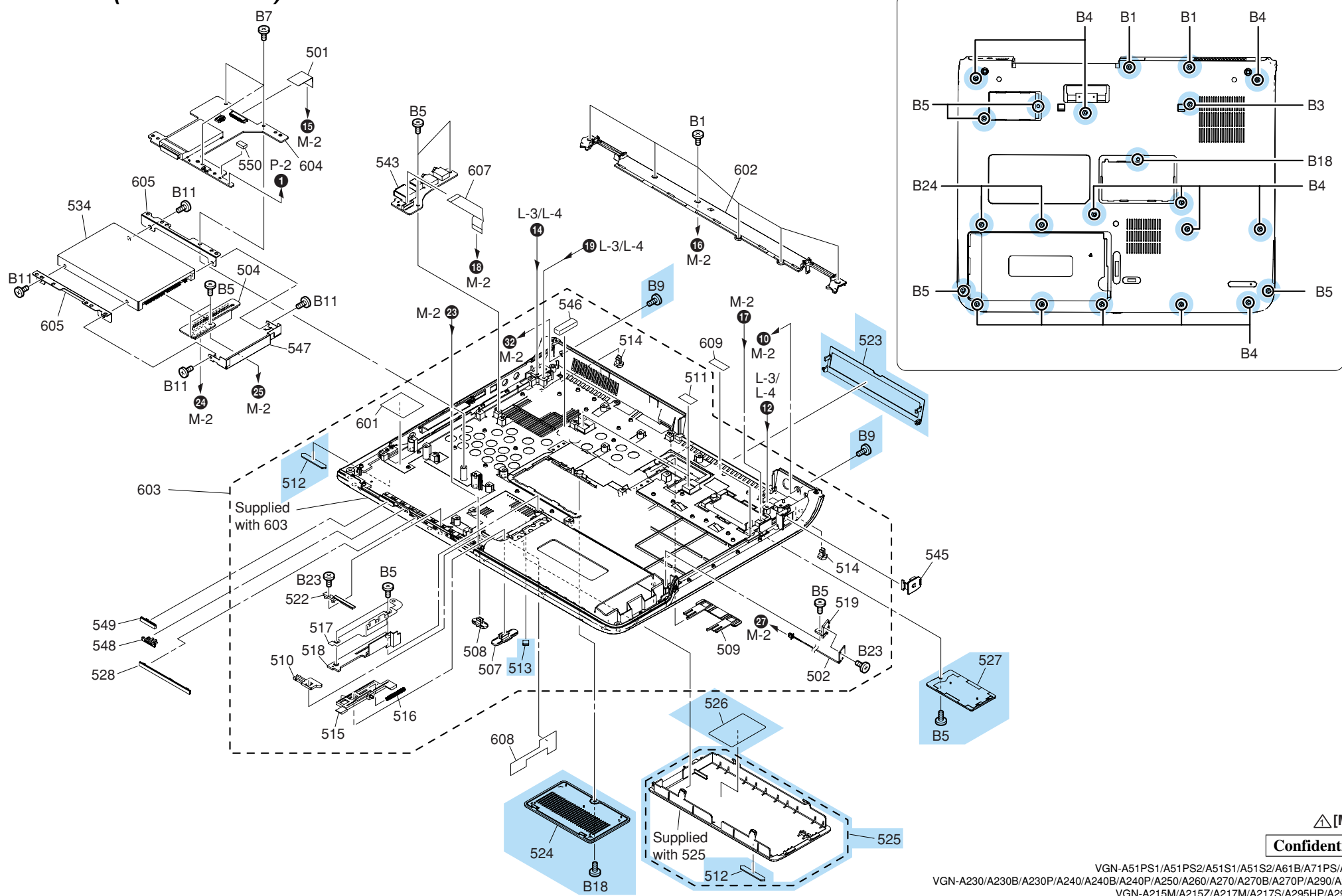
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- 機種名に(\*)がつくのは CTO モデルです。

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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP



B-2. Bottom (15-inch Model)



## B-2. Bottom (15-inch Model)

Ref.No.	Part No.	Description
501	A-1058-406-A	CABLE(26P), FLEXIBLE FLAT
502	A-1058-416-A	CABLE, ODD EJECT
504	A-8068-827-A \$	COMPLETE PWB CNX-247
507	4-682-454-01	SE1 15S BATT BUTTON
508	4-682-455-01	SE1 15S BATT BUTTON3
509	4-682-460-01	SE1 15S DOOR DOCK
510	4-682-457-01	SE1 BATT LOCK
511	4-683-040-01	SE1 DOCKING HOOK MYLAR
512	4-682-443-01 &	SE1 FOOT FRONT
513	4-682-444-01 &	SE1 FOOT FRONT CENTER
514	4-682-445-01	SE1 FOOT REAR
515	4-682-456-01	SE1 LATCH BATT
516	4-682-459-01	SE1 LATCH BATT SPRING
517	4-682-479-01	SE1 EMI SPRING BATT
518	4-682-458-02	SE1 LATCH LEVER
519	4-682-476-01	SE1 SW BRACKET
522	4-682-447-01	LCD LATCH DETECTOR
523	X-4626-721-1 &	SE1 DOOR I/O ASSY
524	X-4626-653-1 &	SE1 DIMM DOOR ASSY
525	X-4626-720-1 &	SE1 BATTERY DOOR ASSY
526	2-025-132-01 &	LABEL BATTERY
527	4-682-466-01 &	SE1 15S DOOR MODEM
543	A-8068-825-A	COMPLETE PWB CNX-245
545	4-682-462-01	MODEM R
546	2-103-447-01	THERMAL MODULE GASKET
547	2-067-843-01	EMI SPRING HDD
550	2-159-787-01	SE1 SPONGE LENS
601	2-024-791-01	SE1 HDD MYLAR
602	4-682-477-01	SE1 DISPLAY BASE
603	X-4626-650-2	SE1 BOTTOM CASE MODULE
604	A-8068-829-A \$ #	COMPLETE PWB IFX-324
605	4-682-418-01	SE1 BRACKET HDD
607	A-1058-424-A	PWB(20P), FLEXIBLE PRINT
608	2-159-785-01	SE1 BATTERY CONN MYLAR-1
609	4-672-493-01	COVER(SC)
B1	4-672-836-01	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B3	4-672-834-41	<&> SCREW, M2 SPECIAL HEAD
B4	2-048-596-02	<&> SCREW, +B EG GRIP
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD
B7	4-644-637-21	<&> GRIP, M2 EG
B9	2-159-307-01	<&> SCREW, M2.6+B EG GRIP
B11	4-672-839-01	HEAD,M3 FLAT
B18	4-672-834-21	<&> SCREW, +B EG GRIP
B23	3-254-029-11	SCREW
B24	4-672-834-71	<&> SCREW,+B EG GRIP

Ref.No.	Part No.	Description	A51PS2*	A51S2*	A230*	A230B*	A230P*	A23CP
			●	●	●	●	●	●
528	4-682-449-11	SE1 LENS PANEL CTO(W/WL,No-BT)	●	●	●	●	●	●
	4-682-449-21	SE1 LENS PANEL CTO(No-WL,No-BT)			●	●	●	
534	A-1062-140-A \$ #	HDD (80GB,HTS548080M9AT00) (S)	●	●	●	●	●	
	A-8067-943-A \$ #	ASSY HDD 80GB (I,40) (S)			●	●	●	
	A-1065-502-A \$ #	ASSY HDD 60GB(-21)(I,40)(S)	●	●	●	●	●	
	A-1083-188-A \$ #	HDD (MHU2100AT-100GB) (S)	●	●	●	●	●	
	A-1083-186-A \$ #	HDD(40GB,HTS424040)(S)			●	●	●	●
548	4-682-446-01	SE1 SWICH W LAN(W/WL)	●	●				
549	4-682-448-01	SE1 ESCUSHION RECESS F(No-WL)			●	●	●	
			[MA]	[MA]				[MA]

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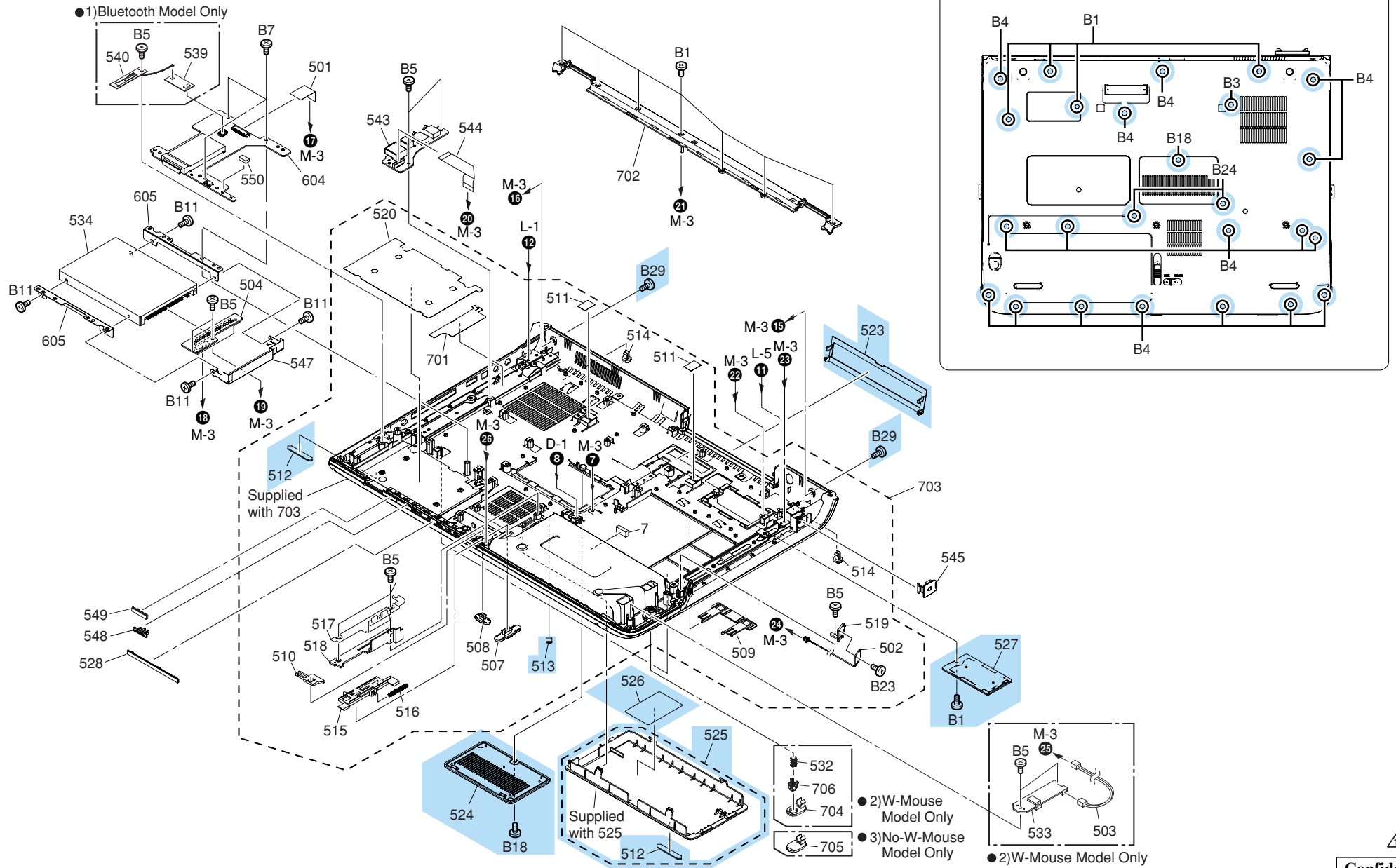
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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP



# B-3. Bottom (15.4-inch Model)



△[MA]

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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

## B-3. Bottom (15.4-inch Model)

Ref.No.	Part No.	Description
7	4-682-423-01	SE1 SPONGE BT
501	A-1058-406-A	CABLE(26P), FLEXIBLE FLAT
502	A-1058-416-A	CABLE, ODD EJECT
504	A-8068-827-A \$	COMPLETE PWB CNX-247
507	4-682-454-01	SE1 15S BATT BUTTON
508	4-682-455-01	SE1 15S BATT BUTTON3
509	4-682-460-01	SE1 15S DOOR DOCK
510	4-682-457-01	SE1 BATT LOCK
511	4-683-040-01	SE1 DOCKING HOOK MYLAR
512	4-682-443-01	& SE1 FOOT FRONT
513	4-682-444-01	& SE1 FOOT FRONT CENTER
514	4-682-445-01	SE1 FOOT REAR
515	4-682-456-01	SE1 LATCH BATT
516	4-682-459-01	SE1 LATCH BATT SPRING
517	4-682-479-01	SE1 EMI SPRING BATT
518	4-682-458-02	SE1 LATCH LEVER
519	4-682-476-01	SE1 SW BRACKET
520	2-103-697-01	SE1P HDD MYLAR
523	X-4626-721-1	& SE1 DOOR I/O ASSY
524	X-4626-653-1	& SE1 DIMM DOOR ASSY
525	X-4626-720-1	& SE1 BATTERY DOOR ASSY
526	2-025-132-01	& LABEL BATTERY
527	4-682-466-01	& SE1 15S DOOR MODEM
543	A-8068-825-A \$	COMPLETE PWB CNX-245
544	A-1058-429-A	PWB(20P),FLEXIBLE PRINT
545	4-682-462-01	SE1 15S MODEM R
547	2-067-843-01	EMI SPRING HDD
550	2-159-787-01	SE1 SPONGE LENS
604	A-8068-829-A \$ #	COMPLETE PWB IFX-324
605	4-682-418-01	SE1 BRACKET HDD
701	2-050-888-01	SEM SHEET AUDIO BD
702	2-050-865-01	SEM DISPLAY BASE
703	X-2021-745-1	SEM BOTTOM CASE ASSY
B1	4-672-836-01	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B3	4-672-834-41	<&> SCREW, +B EG GRIP
B4	2-048-596-02	<&> SCREW, +B EG GRIP
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B7	4-644-637-21	<&> GRIP, M2 EG
B29	4-672-835-01	<&> SCREW, M2.6+B EG GRIP
B11	4-672-839-01	HEAD,M3 FLAT
B18	4-672-834-21	<&> SCREW, +B EG GRIP
B23	3-254-029-11	SCREW
B24	4-672-834-71	<&> SCREW,+B EG GRIP

				J		AM						EU			AO			
				A51PS1*	A51S1*	A260	A250	A240*	A240B*	A240P*	A290F	A295HP	A215M	A215Z	A29GP	A29SP	A29LP	A29TP
Ref.No.	Part No.			Description														
503	A-1058-408-A			CABLE,WIRELESS MOUSE			●	●			●	●	●					
528	4-682-449-01			SE1 LENS PANEL CTO (W/WL,W/BT)			●	●	●	●	●	●	●	●	●	●	●	●
	4-682-449-11			SE1 LENS PANEL CTO(W/WL,No-BT)			●	●			●	●	●	●	●	●	●	●
	4-682-449-21			SE1 LENS PANEL CTO(No-WL,No-BT)							●	●	●					
704	2-050-871-01			SEM BUTTON COVER RF(W/W-Mouse)			●	●			●	●	●					
705	2-050-872-01			SEM PANEL RF CTO(No-W-Mouse)					●	●	●	●	●	●	●	●	●	●
706	2-050-873-01			SEM BUTTON RF(W/W-Mouse)			●	●			●	●	●					
532	4-682-583-01			SE1P SPRING RF KNOB(W/W-Mouse)			●	●			●	●	●					
533	1-796-949-11			USB RF MOUSE RECEIVER			●	●			●	●	●					
534	A-8067-943-A	\$	#	ASSY HDD 80GB (I,40) (S)			●	●	●	●	●	●	●					
	A-1062-140-A	\$	#	HDD (80GB,HTS548080M9AT00)_(S)			●	●			●	●	●					
	A-1065-272-A	\$	#	HDD (MK6025GAS-60GB) (S)										●	●	●	●	
	A-1065-502-A	\$	#	ASSY HDD 60GB(-21)(I,40)(S)			●	●			●	●	●	●	●			
	A-1083-188-A	\$	#	HDD (MHU2100AT-100GB) (S)			●	●			●	●	●					
	A-1083-189-A	\$	#	HDD (MHT2080AT-80GB) (S)			●	●			●	●	●					
	A-1083-186-A	\$	#	HDD(40GB,HTS424040)(S)			●	●			●	●	●					●
539	1-805-554-11			BLUETOOTH MODULE									●		●			
540	A-1058-407-A			CABLE,BT ANTENNA								●		●				
548	4-682-446-01			SE1 SWICH W LAN(W/WL)			●	●	●	●	●	●	●	●	●	●	●	●
549	4-682-448-01			SE1 ESCUSHION RECESS F(No-WL)							●	●	●					
						△ [MA]	△ [MA]							△ [MA]		△ [MA]	△ [MA]	

- 1) The parts of Ref.539 and Ref.540 are used in the BLUETOOTH installation models.  
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△ [MA]

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 VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
 VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

## D-1. Optical Drive

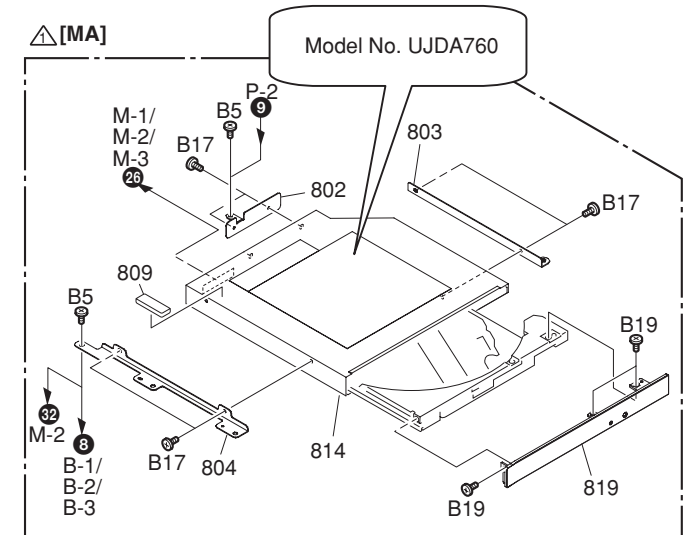
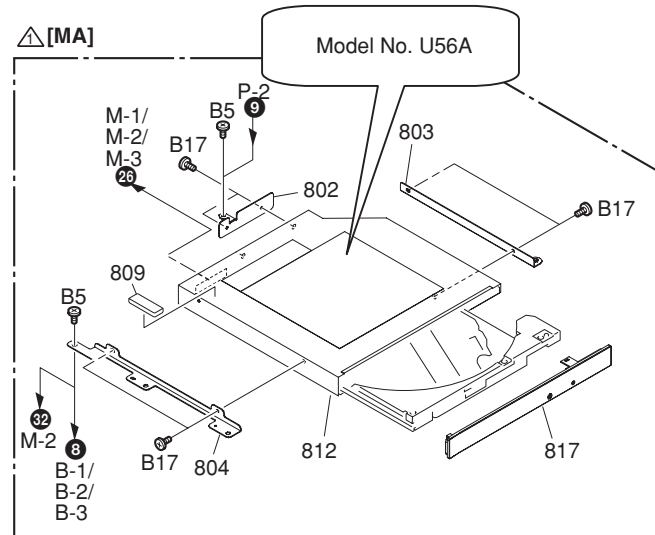
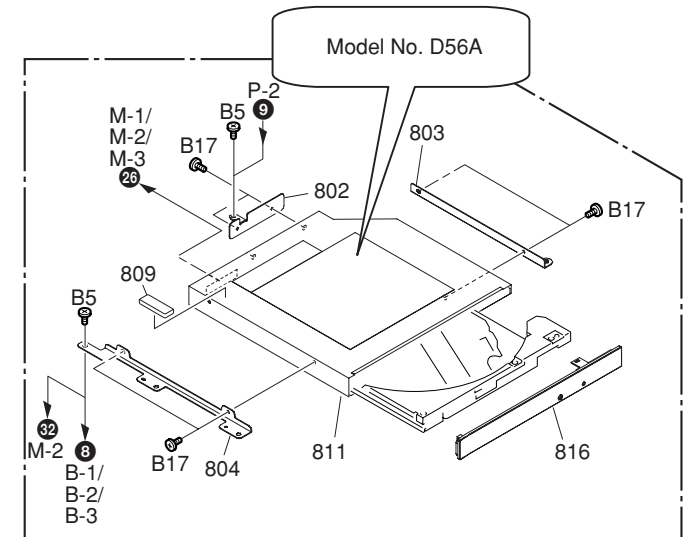
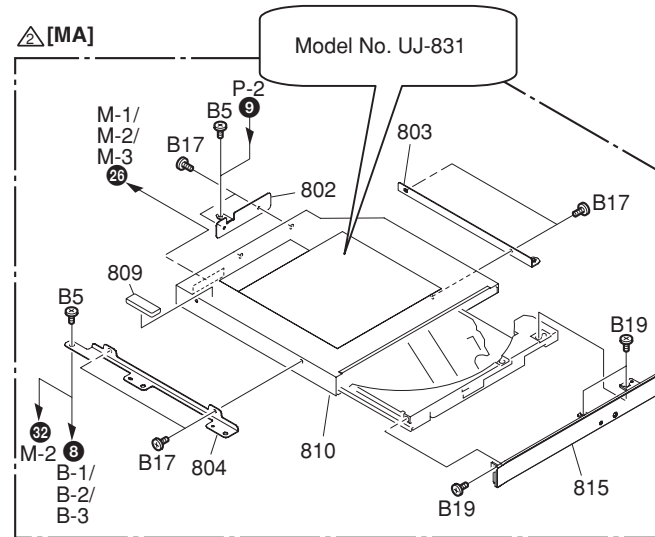
### How to Use Parts Differently.

This series of product uses the five different types of the optical drive.

When replacing the optical drive, check the indication label of it, and use the same type of the optical drive.

Each optical drive has different types of the bezel.

For the how to identify the type of drive and the combination of the Bezel, refer to the details below.



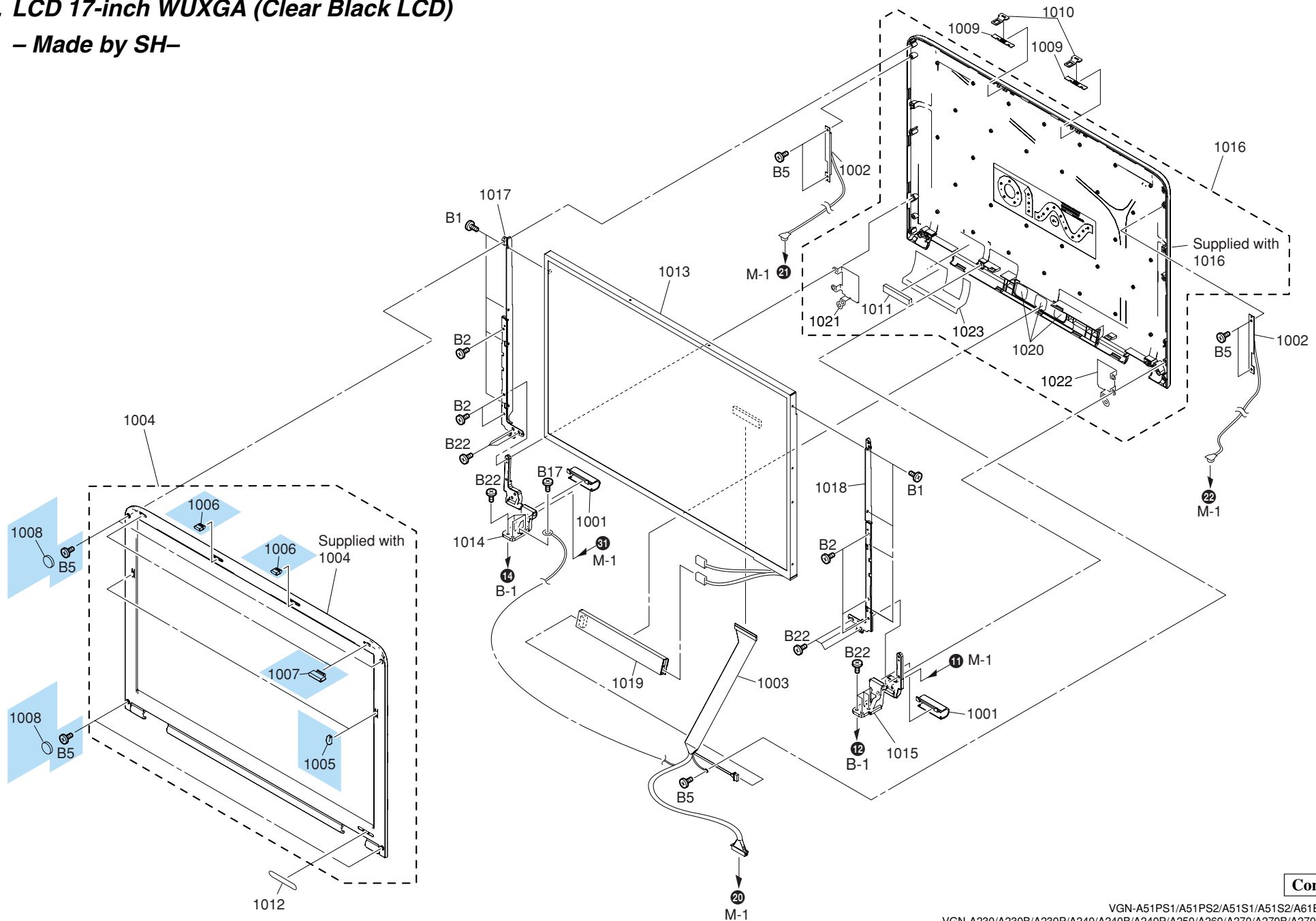
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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
 VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
 VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
 VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP



# L-1. LCD 17-inch WUXGA (Clear Black LCD)

– Made by SH–



**Confidential**

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
 VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
 VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
 VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

## L-1. LCD 17-inch WUXGA (Clear Black LCD)

– Made by SH–

Ref.No.	Part No.	Description
1001	4-682-380-01	SE1 COVER HINGE
1003	A-8119-991-A	HARNESS, LCD FOR 17WUXGA
1004	X-4626-664-1	SE1P BEZEL DISPLAY 17 ASM
1005	4-682-397-01	& SE1 CUSHION LCD SIDE
1006	4-682-396-01	& SE1 CUSHION LATCH
1007	4-682-395-01	& SE1 CUSHION LCD
1008	4-682-398-01	& SE1 COVER SCREW
1009	4-682-388-01	SE1 HOOK PLATE LCD 2
1010	4-682-390-02	HOOK LCD 15
1011	2-024-790-01	SE1 GASKET AU LVDS DISPLAY
1013	A-1062-138-A \$ #	LCD_UNIT_(2CFL-17WUXGA)(S)
1014	4-682-578-01	SE1P HINGE L AMS
1015	4-682-577-01	SE1P HINGE R AMS
1016	X-4626-663-1	SE1P HOUSING DISPLAY 17 2 ASM
1017	4-682-576-01	SE1P LCD BRACKET L
1018	4-682-575-01	SE1P LCD BRACKET R
1019	1-478-629-11	INVERTER UNIT(2CFL-17W)
1020	2-159-645-01	SE1P INVERTER ADHESIVE
1021	2-190-716-01	SE1P HOUSING AL L
1022	2-190-717-01	SE1P HOUSING AL R
1023	2-190-718-01	SE1P HOUSING AL BTM
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B2	4-672-836-21	SCREW, M2 SPECIAL HEAD,EG GRIP
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B17	4-671-538-01	SCREW(M2x4),SPECIAL HEAD
B22	2-108-227-01	SPECIAL FLAT HEAD

			J		AM				EU	AO
			A71PS*	A71S*	A290	A270*	A270B*	A270P*	A297XP	A29CP
	Ref.No.	Part No.	Description							
	1002	A-1058-425-A	●	●	●	●	●	●	●	●
△	[MA]	1012	2-320-133-01						●	
△			2-320-341-01		●					
△	[MA]		2-320-350-01	●						
△	[MA]		2-320-350-11		●					
△	[MA]		2-320-353-01					●		
△	[MA]		2-320-353-11			●				
△	[MA]		2-320-353-21			●				
△	[MA]		2-320-356-01							●
				△	△	△	△	△	△	△
			[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]

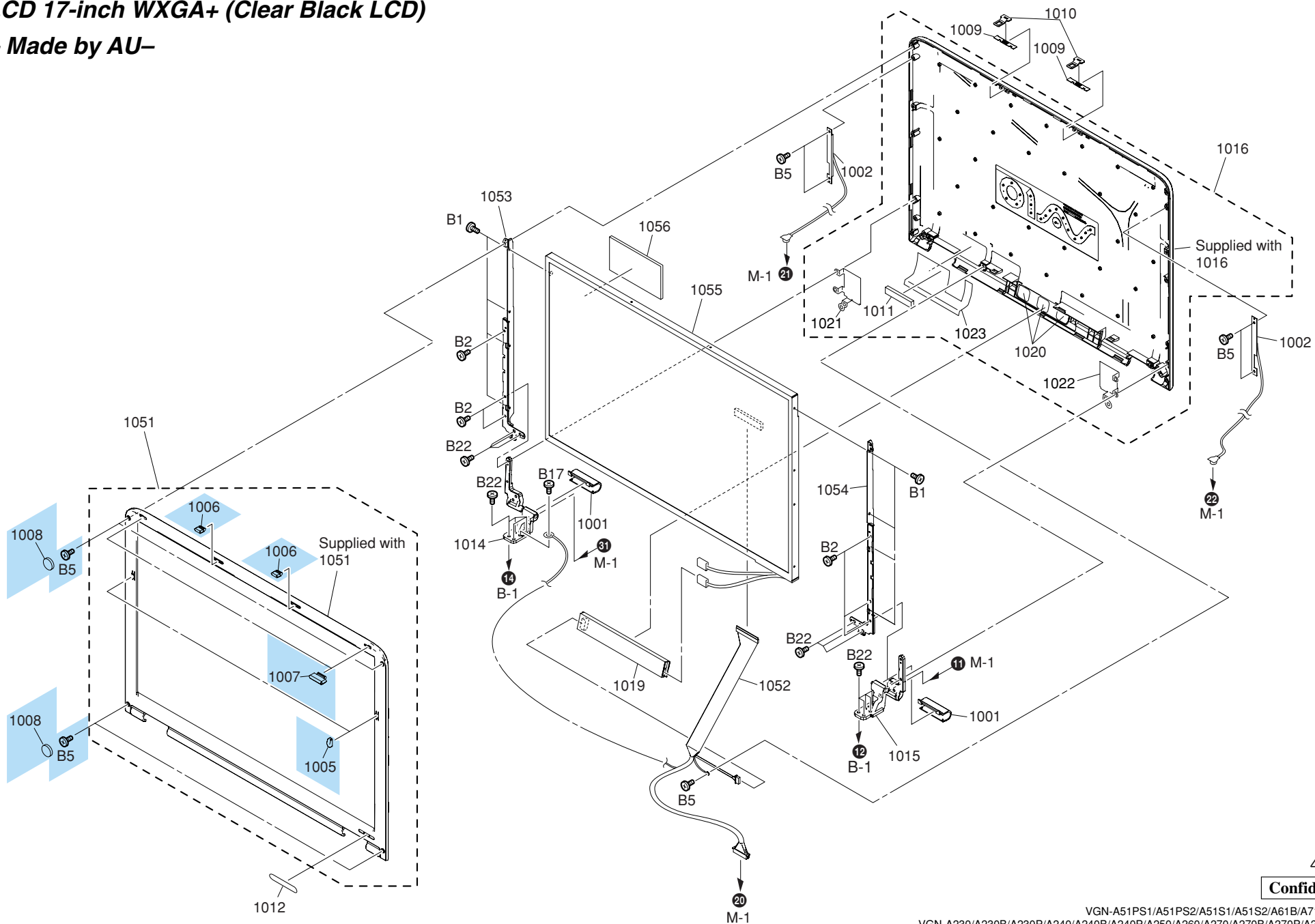
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Confidential

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

**L-2. LCD 17-inch WXGA+ (Clear Black LCD)**

**– Made by AU–**



## L-2. LCD 17-inch WXGA+ (Clear Black LCD)

– Made by AU–

Ref.No.	Part No.	Description
1001	4-682-380-01	SE1 COVER HINGE
1005	4-682-397-01	& SE1 CUSHION LCD SIDE
1006	4-682-396-01	& SE1 CUSHION LATCH
1007	4-682-395-01	& SE1 CUSHION LCD
1008	4-682-398-01	& SE1 COVER SCREW
1009	4-682-388-01	SE1 HOOK PLATE LCD 2
1010	4-682-390-02	HOOK LCD 15
1011	2-024-790-01	SE1 GASKET AU LVDS DISPLAY
1014	4-682-578-01	SE1P HINGE L AMS
1015	4-682-577-01	SE1P HINGE R AMS
1016	X-4626-663-1	SE1P HOUSING DISPLAY 17 2 ASM
1019	1-478-629-11	INVERTER UNIT(2CFL-17W)
1020	2-159-645-01	SE1P INVERTER ADHESIVE
1021	2-190-716-01	SE1P HOUSING AL L
1022	2-190-717-01	SE1P HOUSING AL R
1023	2-190-718-01	SE1P HOUSING AL BTM
1051	X-2024-399-1	SE2P BEZEL DISPLAY 17 AU
1052	A-1074-808-A	HARNESS,LCD 17 WXGA
1053	2-176-382-01	SE2P LCD BRACKET L
1054	2-176-383-01	SE2P LCD BRACKET R
1055	A-1087-141-A \$ #	LCD_UNIT_(17WXGA)_(S)
1056	2-342-994-01	SHIELD TAPE(AU17)
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B2	4-672-836-21	SCREW, M2 SPECIAL HEAD,EG GRIP
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B17	4-671-538-01	SCREW(M2x4),SPECIAL HEAD
B22	2-108-227-01	SPECIAL FLAT HEAD

				P			AM			EU	
				A61B	A71S*	A71PS*	A270*	A270B*	A270P*	A217S	A217M
Ref.No Part No.				Description							
△ [MA]	1002	A-1058-425-A	CABLE, WL ANTENNA								
	1012	2-320-133-11	LABEL ID (E)								
△ [MA]		2-320-133-21	LABEL ID (E)								
		2-320-340-01	LABEL ID (J)								
		2-320-353-01	LABEL ID (UCTO)								
		2-320-353-11	LABEL ID (UCTO)								
△ [MA]		2-320-353-21	LABEL ID (UCTO)								
		2-320-350-01	LABEL ID (JCTO)								
△ [MA]		2-320-350-11	LABEL ID (JCTO)								
				△ [MA]	△ [MA]	△ [MA]				△ [MA]	

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△ [MA]

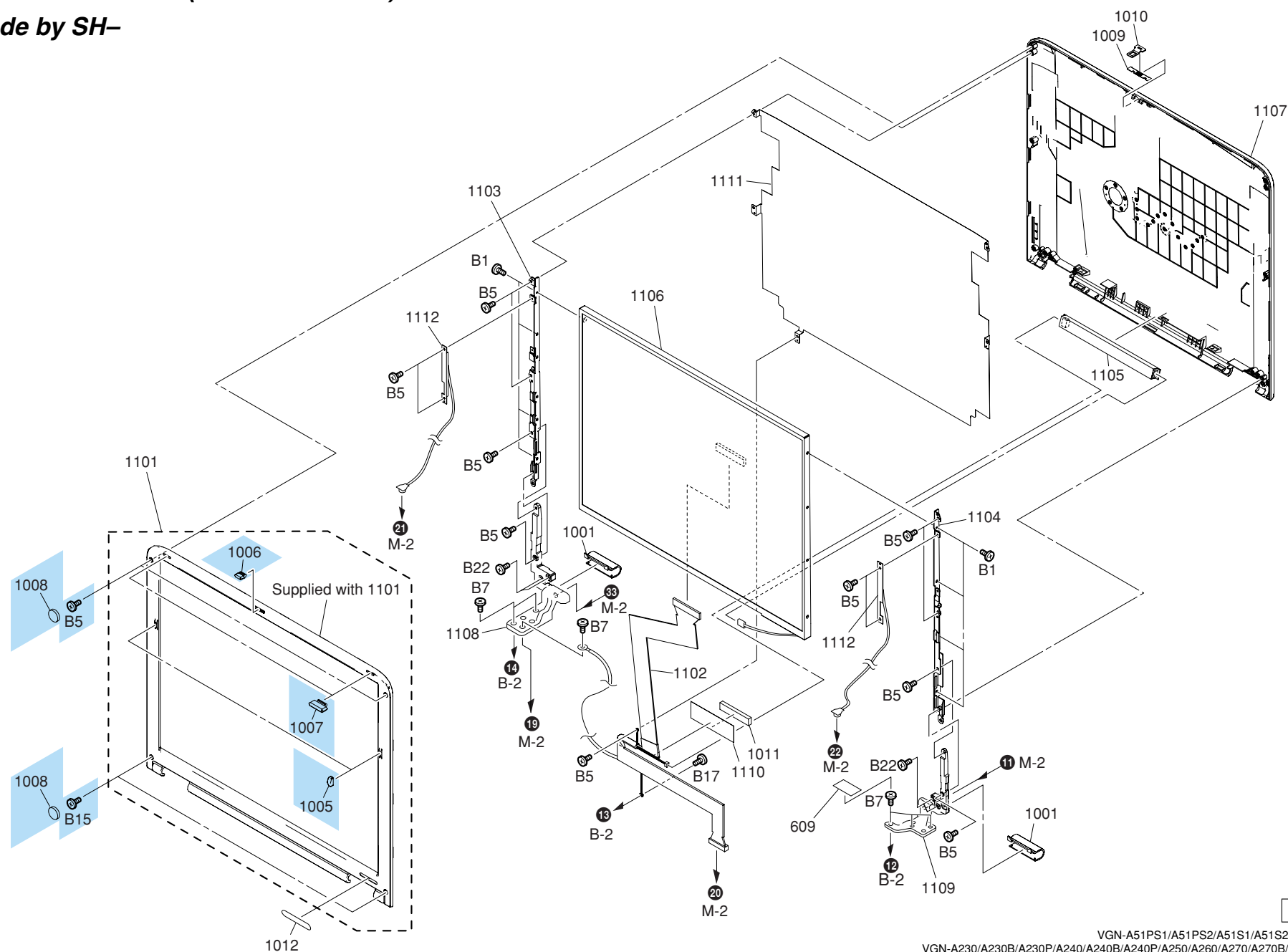
**Confidential**

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP



**L-3. LCD 15-inch SXGA+ (Clear Black LCD)**

**– Made by SH–**

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Confidential

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

### L-3. LCD 15-inch SXGA+ (Clear Black LCD)

– Made by SH–

Ref.No.	Part No.	Description
609	4-672-493-01	COVER(SC)
1001	4-682-380-01	SE1 COVER HINGE
1005	4-682-397-01	& SE1 CUSHION LCD SIDE
1006	4-682-396-01	& SE1 CUSHION LATCH
1007	4-682-395-01	& SE1 CUSHION LCD
1008	4-682-398-01	& SE1 COVER SCREW
1009	4-682-388-01	SE1 HOOK PLATE LCD 2
1010	4-682-390-01	SE1 HOOK LCD 15
1011	2-024-790-01	SE1 GASKET AU LVDS DISPLAY
1101	X-4626-643-1	SE1 BEZEL DISPLAY 15 ASSY
1102	A-8119-992-A	HARNESS, LCD FOR 15SXGA+
1103	4-682-402-01	SE1 BRACKET LCD SH L
1104	4-682-403-01	SE1 BRACKET LCD SH R
1105	1-478-048-11	INVERTER UNIT
1106	A-1062-139-A \$ #	LCD UNIT (2CFL-15SXGA+-SH)(S)
1107	X-4626-642-1	SE1 HOUSING DISPLAY 15 ASSY
1108	4-682-405-01	SE1 HINGE R
1109	4-682-404-01	SE1 HINGE L
1110	2-024-789-01	SE1 TAPE LVDS DISPLAY
1111	4-682-391-01	SE1 SHEET LCD
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B7	4-644-637-21	GRIP, M2 EG
B15	4-653-582-21	<&> SCREW M2(NE)
B17	4-671-538-01	SCREW(M2x4),SPECIAL HEAD
B22	2-108-227-01	SPECIAL FLAT HEAD(EG GRIP)

			J		AM		
			A51PS2*	A51S2*	A230*	A230B*	A230P*
[MA]	Ref.No.	Part No.	Description				
	1012	2-320-350-41	LABEL ID (JCTO)	●			
		2-320-350-51	LABEL ID (JCTO)		●		
		2-320-353-61	LABEL ID (UCTO)				●
		2-320-353-71	LABEL ID (UCTO)			●	
		2-320-353-81	LABEL ID (UCTO)			●	
	1112	A-1058-421-A	CABLE, WL ANTENNA	●	●	●	●
				[MA]	[MA]		

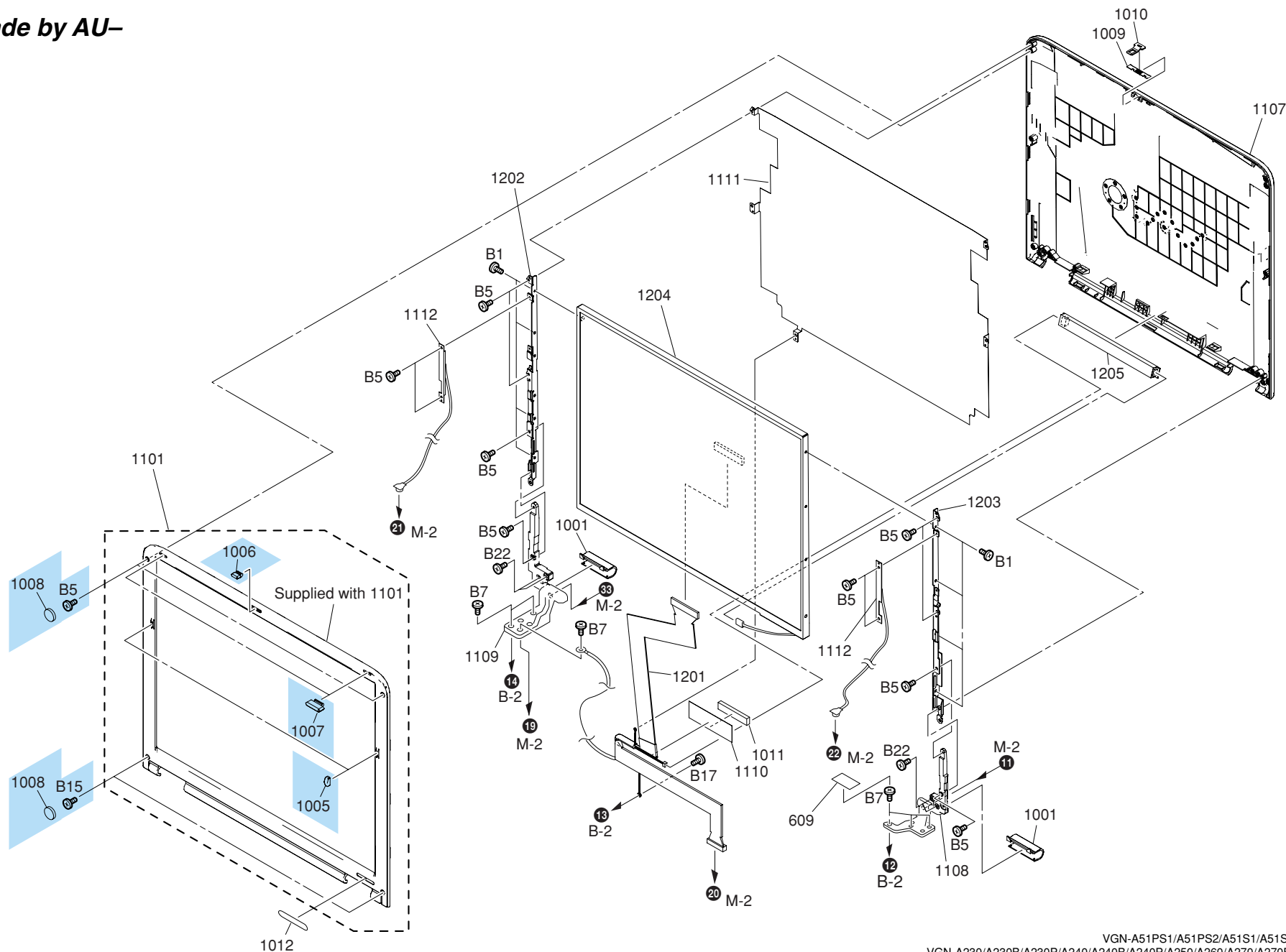
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△ [MA]

**Confidential**

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

**L-4. LCD 15-inch XGA**  
**– Made by AU–**



△[MA]

**Confidential**

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
 VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
 VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
 VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

## L-4. LCD 15-inch XGA

### – Made by AU–

Ref.No.	Part No.	Description
609	4-672-493-01	COVER(SC)
1001	4-682-380-01	SE1 COVER HINGE
1005	4-682-397-01	& SE1 CUSHION LCD SIDE
1006	4-682-396-01	& SE1 CUSHION LATCH
1007	4-682-395-01	& SE1 CUSHION LCD
1008	4-682-398-01	& SE1 COVER SCREW
1009	4-682-388-01	SE1 HOOK PLATE LCD 2
1010	4-682-390-01	SE1 HOOK LCD 15
1011	2-024-790-01	SE1 GASKET AU LVDS DISPLAY
1101	X-4626-643-1	SE1 BEZEL DISPLAY 15 ASSY
1107	X-4626-642-1	SE1 HOUSING DISPLAY 15 ASSY
1108	4-682-405-01	SE1 HINGE R
1109	4-682-404-01	SE1 HINGE L
1110	2-024-789-01	SE1 TAPE LVDS DISPLAY
1111	4-682-391-01	SE1 SHEET LCD
1201	A-8119-993-A	HARNESS, LCD FOR 15XGA
1202	4-682-400-01	SE1 BRACKET LCD SPWG L
1203	4-682-401-01	SE1 BRACKET LCD SPWG R
1204	A-8115-791-A \$ #	ASSY LCD 15XGA(AU)(S)
1205	1-476-316-31	INVERTER UNIT
B1	4-672-836-01	SCREW, M2 SPECIAL HEAD,EG GRIP
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B7	4-644-637-21	GRIP, M2 EG
B15	4-653-582-21	<&> SCREW M2(NE)
B17	4-671-538-01	SCREW(M2x4),SPECIAL HEAD
B22	2-108-227-01	SPECIAL FLAT HEAD(EG GRIP)



[MA]

			AM		AO
Ref.No.	Part No.	Description	A230*	A230B*	A230P*
1012	2-320-353-61	LABEL ID (UCTO)			●
	2-320-353-71	LABEL ID (UCTO)	●		
	2-320-353-81	LABEL ID (UCTO)		●	
	2-320-356-11	LABEL ID (C)			●
1112	A-1058-421-A	CABLE, WL ANTENNA	●	●	●



[MA]

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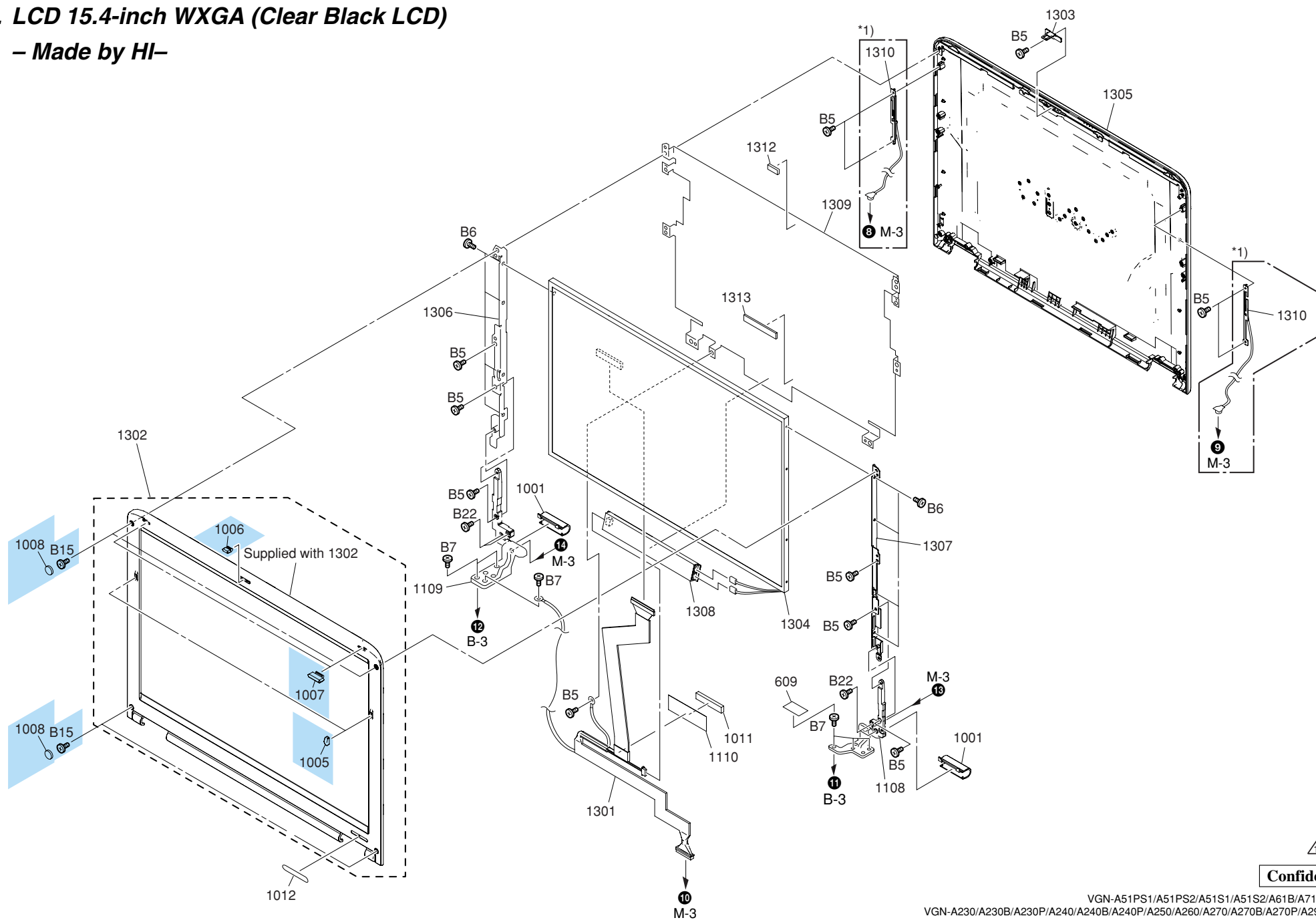
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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

**L-5. LCD 15.4-inch WXGA (Clear Black LCD)**

**– Made by HI–**



## L-5. LCD 15.4-inch WXGA (Clear Black LCD)

– Made by HI–

Ref.No.	Part No.	Description
609	4-672-493-01	COVER(SC)
1001	4-682-380-01	SE1 COVER HINGE
1005	4-682-397-01	& SE1 CUSHION LCD SIDE
1006	4-682-396-01	& SE1 CUSHION LATCH
1007	4-682-395-01	& SE1 CUSHION LCD
1008	4-682-398-01	& SE1 COVER SCREW
1011	2-024-790-01	SE1 GASKET AU LVDS DISPLAY
1108	4-682-405-01	SE1 HINGE R
1109	4-682-404-01	SE1 HINGE L
1301	A-1067-140-A	HARNESS, LCD FOR 15.4WXGA
1302	X-2021-749-1	SEM BEZEL DISPLAY ASSY
1303	2-050-879-01	SEM LCD HOOK
1304	A-1072-741-A \$ #	ASSY LCD(15.4WXGA)(H)(S)
1305	X-2021-750-1	SEM HOUSING DISPLAY ASSY
1306	2-050-880-01	SEM LCD BRACKET L
1307	2-050-881-01	SEM LCD BRACKET R
1308	1-478-040-11	INVERTER UNIT
1309	2-050-890-01	SEM LCD SHIELDING AL
1110	2-024-789-01	SE1 TAPE LVDS DISPLAY
1312	4-677-681-01	SR1 SPONGE DOOR BATTERY
1313	2-515-223-01	SPONGE LCD
B5	4-672-836-11	<&> SCREW, M2 SPECIAL HEAD,EG GRIP
B6	4-656-703-01	SCREW,M2 GRIP
B7	4-644-637-21	GRIP M2 EG
B15	4-653-582-21	<&> SCREW M2(NE)
B22	2-108-227-01	SPECIAL FLAT HEAD(EG GRIP)

			J		AM				EU		AO							
			A51PS1*	A51S1*	A260	A250	A240*	A240B*	A240P*	A290F	A295HP	A215M	A215Z	A29GP	A29SP	A29LP	A29TP	A21C
Ref.No. Part No. Description																		
	1310	A-1067-141-A	CABLE, WL ANTENNA FOR M	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	1012	2-320-341-11	LABEL ID (U)			●												
		2-320-341-21	LABEL ID (U)				●											
		2-320-345-01	LABEL ID (E)								●							
		2-320-345-11	LABEL ID (E)									●						
		2-320-345-31	LABEL ID (E)										●					
		2-320-350-21	LABEL ID (J)	●														
		2-320-350-31	LABEL ID (J)		●													
		2-320-353-31	LABEL ID (UCTO)					●		●								
		2-320-353-41	LABEL ID (UCTO)						●									
		2-320-353-51	LABEL ID (UCTO)						●									
		2-320-354-01	LABEL ID (L)								●							
		2-320-356-21	LABEL ID (C)															●
		2-320-361-01	LABEL ID (I)											●				
		2-320-361-11	LABEL ID (I)												●			
		2-320-361-21	LABEL ID (I)													●		
		2-320-361-31	LABEL ID (I)														●	

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- 1) The CABLE,WL ANTENNA FOR M(Ref.1310) is installed also in the models without Wireless LAN.  
Refer to "5-3 Wiring the W-LAN Cable" in CHAPTER 5 to see how to wire the CABLE.

- 1) Wireless-LAN を搭載しないモデルにも、CABLE,WL ANTENNA FOR M (Ref.1310) が取りつけられています。  
ケーブルの処理方法は CHAPTER 5、「5-3 Wiring the W-LAN Cable」を参照してください。

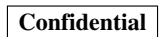
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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP









## A-2. Accessories

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
1	X-4626-667-1	SUB HOUSING UPPER BPR ASSY	62	2-148-338-01	BPR SPONGE USB 2 PORT
2	4-682-689-01	BPR MYLAR FOOT	B31	4-635-966-01	SCREW (HEX)
3	4-682-693-01	BPR CAP BOSS DOCK CONN	B32	4-671-504-11	<&> SCREW,TAPPING+P2.6
4	4-682-694-01	BPR BRACKET ARM TRAY	B33	3-906-376-01	SCREW(2.6x6)
5	4-682-695-01	BPR HOOK FRONT	B34	4-639-112-31	SCREW M2X4
			B35	2-103-677-01	T3X8L, (I) B-NI
6	4-682-697-01	BPR ARM SLIDE HOOK YOKO	B36	4-641-726-21	<&> SCREW(M2),SPECIAL HEAD
7	4-682-698-01	BPR KNOB HOOK RELEASE	B37	4-671-538-01	SCREW(M2x4),SPECIAL HEAD
8	4-682-699-01	BPR KNOB HOOK RELEASE BOTTOM	B38	4-635-301-11	SCREW M3X4
9	4-682-700-01	BPR PIN GND			
10	X-4626-672-1	SUB HOUSING TRAY BPR ASSY			
11	4-682-721-01	& BPR CUSHION REAR			
12	4-682-720-01	& BPR CUSHION FRONT			
13	2-048-435-01	BPR MYLAR FPC			
14	A-1058-415-A	HARNESS, DC			
15	A-1059-670-A \$	COMPLETE PWB CNX-271			
16	4-682-690-01	BPR PLATE DOCK CONN UPPER			
17	4-682-691-01	BPR PLATE DOCK CONN BOTTOM			
18	2-048-436-01	BPR MYLAR SHIELDING			
19	X-2021-564-1	BPR ASSYSUB CAM SLIDE HOOK			
20	2-048-437-01	BPR SPONGE CAM SLIDE HOOK			
21	4-682-709-01	BPR ARM TRAY PIN			
22	4-682-712-01	BPR BRACKET DC			
24	4-682-708-01	BPR LIGHT GUIDE LED			
25	4-682-714-01	BPR SPRING TRAY R			
26	4-682-715-01	BPR SPRING TRAY L			
28	X-4626-669-1	SUB HOUSING BOTTOM BPR ASSY			
29	4-682-703-01	& BPR RUBBET FOOT			
30	2-048-440-01	APR MYLAR B2B CONNECTOR			
32	X-4626-671-1	SUB FRAME BPR ASSY			
33	4-682-710-01	BPR COVER RIGHT HOUSING UPPER			
34	4-682-711-01	BPR COVER LEFT HOUSING UPPER			
35	A-1058-418-A	PWB (60P), FLEXIBLE PRINT A			
36	A-1058-419-A	PWB (60P), FLEXIBLE PRINT B			
37	A-1058-420-A	CABLE, ETHER			
40	4-682-728-01	APR COVER BRACKET D-SUB-1			
41	4-682-729-01	APR COVER BRACKET D-SUB-2			
42	2-048-439-01	BPR ENFORCE PLATE			
43	2-103-312-01	MYLAR TOP SHIELD R			
45	2-103-314-01	MYLAR 34x40			
47	2-103-316-01	GASKET 7x10x2			
48	2-103-317-01	MYLAR HOOK FRONT			
50	2-103-318-01	APR FOIL AL 6x24			
51	A-1059-668-A \$	COMPLETE PWB IFX-312			
60	2-048-434-01	BPR MYLAR BRACKET ARM TRAY			
61	2-103-313-01	BPR MYLAR TOP SHIELD L			

Ref.No.	Part No.	Description	J-PR	U-PR	E-PR	C-PR
27	A-1084-118-A	\$ COMPLETE PWB CNX-250E	●	●	●	●
	A-1084-117-A	\$ COMPLETE PWB CNX-250C				●
31	X-4626-673-1	SUB COVER IO AV1 APR1 ASSY	●	●	●	
44	2-103-240-01	MYLAR RCA 1PIN	●	●	●	
49	4-680-501-01	RF,CONN WASHER	●	●		
52	A-1059-662-A	\$ COMPLETE PWB ENX-29(J)	●			
	A-1059-667-A	\$ COMPLETE PWB ENX-29(U)		●		
	A-1081-799-A	\$ COMPLETE PWB ENX-34			●	
53	4-682-722-01	APR BRACKET TUNER	●	●		
80	2-345-937-01	EPR BRACKET TUNER			●	
54	4-680-482-01	RF CONN,NUT	●	●		
63	2-148-335-01	APR THERMAL PAD TUNER BIG	●	●		
64	2-148-336-01	APR THERMAL PAD TUNER SIDE	●	●		
65	X-2022-558-1	ASSY SUB HEATSINK TUNER	●	●		
66	2-148-337-01	APR ADHESIVE HEATSINK TUNER MO	●	●		
67	X-2024-177-1	APR SUB FAN BRACKET ASSY			●	
68	2-318-497-01	APR ADHESIVE FAN BRACKET			●	
69	A-1081-380-A	UDQFUMH07-AS DC FAN 105MM			●	
70	2-345-931-01	EPR MYLAR TUNER			●	
71	2-318-499-01	EPR BRACKET TUNER			●	
72	2-345-932-01	CPR SPACER DC				●
73	2-345-933-01	CPR DUMMY BOARD				●
74	X-2024-630-1	CPR COVER IO AV ASSY				●
75	2-345-934-01	CPR CAP S-VIDEO				●
76	2-345-935-01	CPR CAP VIDEO IN				●
77	2-345-936-01	CPR CAP TUNER				●
78	2-345-937-01	CPR MYLAR RCA				●

- The destination is shown in the list of 4-1 for the Port Replicator.  
Please refer to list shown in the below.

- ポートリプリケータの仕向けは、4-1 の一覧表を参照ください。

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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

DIP Switch

The DIP switch setting is following table.

DIP スイッチの設定は下の表をご参照ください。

J	<div><div>△[MA]</div><div>VGN-A61B</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div>
AM	<div><div>△[MA]</div><div>VGN-A250</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div> <div><div>△[MA]</div><div>VGN-A260</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div> <div><div>△[MA]</div><div>VGN-A290</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div> <div><div>△[MA]</div><div>VGN-A290F</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div>
EU	<div><div>△[MA]</div><div>VGN-A215M</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div> <div><div>△[MA]</div><div>VGN-A215Z</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div> <div><div>△[MA]</div><div>VGN-A217M</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div> <div><div>△[MA]</div><div>VGN-A217S</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div> <div><div>△[MA]</div><div>VGN-A295HP</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div> <div><div>△[MA]</div><div>VGN-A297XP</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div>
AO	<div><div>△[MA]</div><div>VGN-A21C</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div> <div><div>△[MA]</div><div>VGN-A23CP</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div> <div><div>△[MA]</div><div>VGN-A29CP</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div> <div><div>△[MA]</div><div>VGN-A29GP</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div> <div><div>△[MA]</div><div>VGN-A29LP</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div> <div><div>△[MA]</div><div>VGN-A29SP</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div> <div><div>△[MA]</div><div>VGN-A29TP</div><div><div><div>O</div><div>N</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div></div>

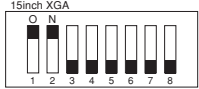
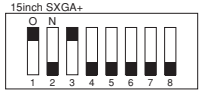
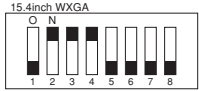
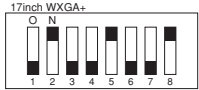
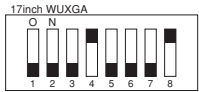
The DIP switch setting is different depending the types of LCD.

Set the DIP switch of the CTO model in accordance with the [FOR CTO MODEL].

DIP スイッチの設定は、LCD の種類によって異なります。

CTO モデルは、【FOR CTO MODEL】の表に従って DIP スイッチを設定してください。

△[MA]  
[FOR CTO MODEL]



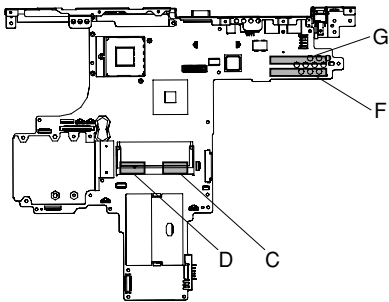
## CHAPTER 5. OTHERS

### 5-1. The barcode label

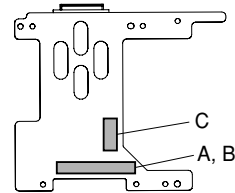
The hatched portion of the barcode label is used as the repair data.

バーコードラベルの網掛け部は、修理データとして使用しています。

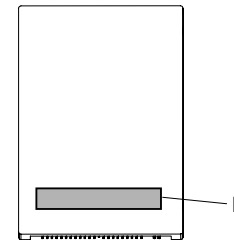
[ MBX-110 Board ] (Side A)




[ IFX-335/IFX-324 Board ] (Side B)

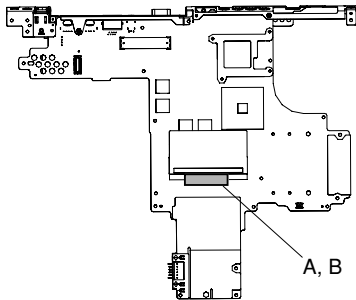


[ HDD ] (Made by Hi) (Bottom)

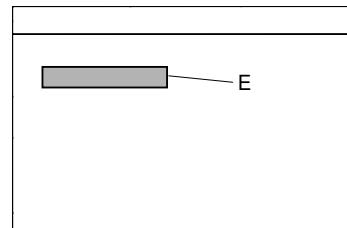


- A : Parts No.
- B : Serial No.
- C : Revision No.
- D : Product code
- E : Maker Barcode
- F : Global User ID (iLink)
- G : Mac Address
-  : Barcode

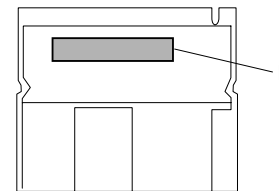
[ MBX-110 Board ] (Side B)



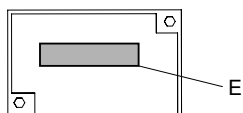
[ LCD Unit ] (Rear)



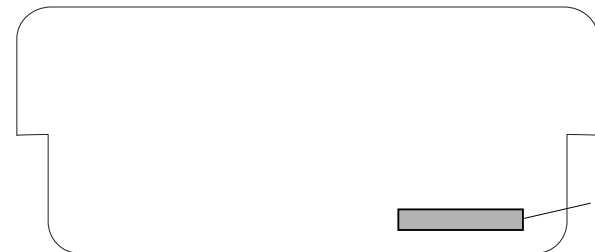
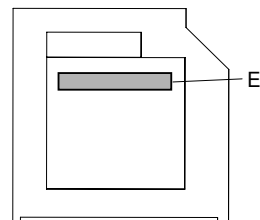
[ Wireless LAN Card ]



[ Modem Card ]



[ Optical Drive ] (Top)



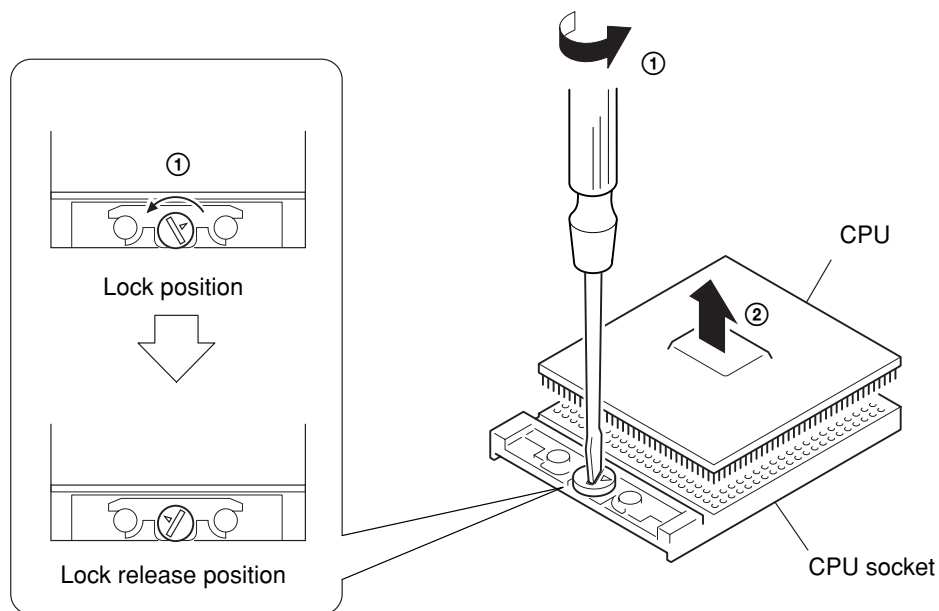
**Confidential**

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

## 5-2. Replacing the CPU

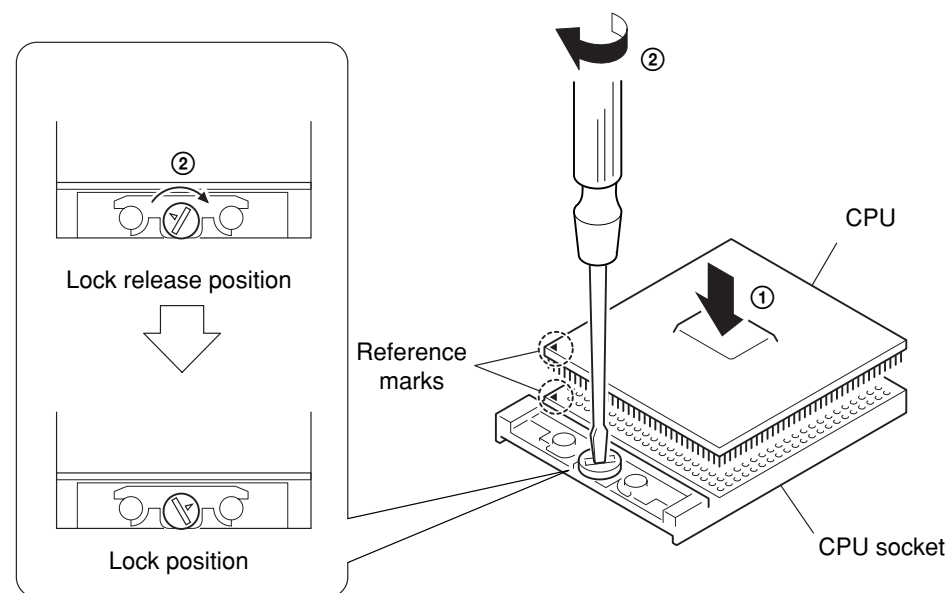
### 1. Removing the CPU

- ① Insert a flat-blade screwdriver into the notch as shown in the illustration and rotate it so that the protrusion comes to the lock release position.
- ② Pull the CPU gently upward to lift it out of the CPU socket.



### 2. Installing the CPU

- ① Align the triangle reference mark of the CPU with that of the CPU socket and insert all the pins of the CPU to the corresponding holes of the CPU socket.
- ② While pressing the two positions marked by ○, insert the flat head (-) screwdriver into the specified position and rotate the screwdriver to the LOCK position.



#### NOTE:

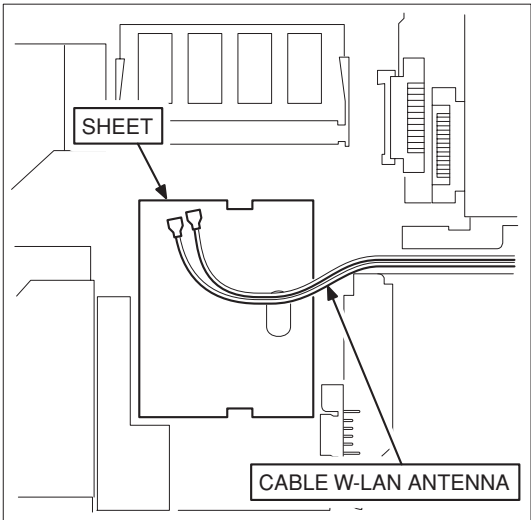
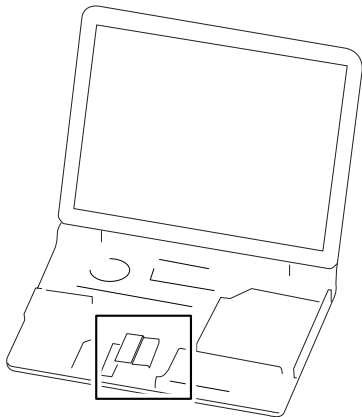
Rotate a flat-blade screwdriver to the lock position securely. If not, the operation of the CPU may become unstable.

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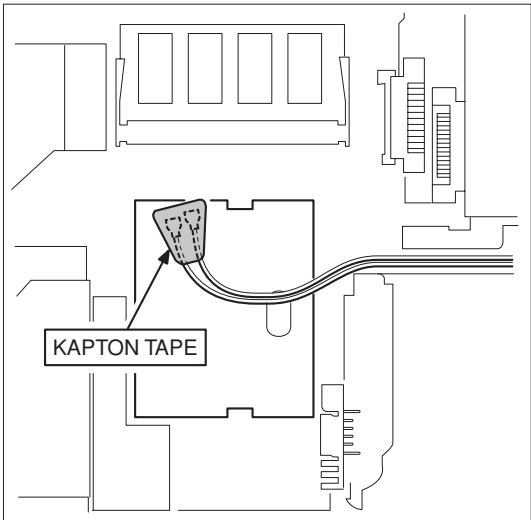
VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

5-3. Wiring the W-LAN Cable (For 15.4 WXGA Model)

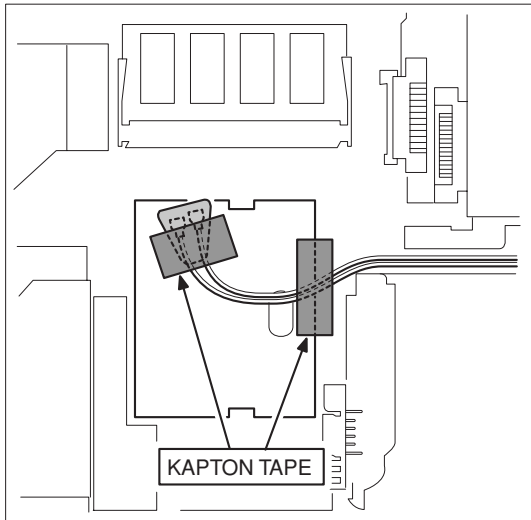
\* The CABLE W-LAN ANTENNA is installed also in the models without Wireless LAN.  
Refer to the instructions below to see how to wire the CABLE.



1. Wire the CABLE W-LAN as shown in the picture.



2. Attach the KAPTON TAPE to secure the terminal of the CABLE such that it winds around secure the terminal of the CABLE.



3. Attach the KAPTON TAPE on the top of the sheet and secure the CABLE.

⚠ [MA]

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VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP



VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP

List of VGN-A Series (As of November, 2004)

Service Manual Part No.	Model Name			
	J	AM	EU	AO
9-876-367-XX	VGN-A50B	VGN-A130*	VGN-A115B	VGN-A11C
	VGN-A60B	VGN-A130P*	VGN-A115S	VGN-A13CP
	VGN-A60PS*	VGN-A170*	VGN-A117S	VGN-A15CP
	VGN-A60S*	VGN-A170P*	VGN-A195EP	VGN-A15GP
	VGN-A70P	VGN-A190	VGN-A195HP	VGN-A15LP
	VGN-A70PS*		VGN-A197VP	VGN-A17GP
	VGN-A70S*		VGN-A197XP	VGN-A17LP
9-876-374-XX		VGN-A140*	VGN-A115M	VGN-A17CP
		VGN-A140B*	VGN-A115Z	VGN-A19GP
		VGN-A140P*		VGN-A19LP
		VGN-A150		VGN-A19SP
		VGN-A160		VGN-A19TP
		VGN-A190F		
9-876-387-XX	VGN-A51PS1*	VGN-A230*	VGN-A215M	VGN-A21C
	VGN-A51PS2*	VGN-A230B*	VGN-A215Z	VGN-A23CP
	VGN-A51S1*	VGN-A230P*	VGN-A217M	VGN-A29CP
	VGN-A51S2*	VGN-A240*	VGN-A217S	VGN-A29GP
	VGN-A61B	VGN-A240B*	VGN-A295HP	VGN-A29LP
	VGN-A71PS*	VGN-A240P*	VGN-A297XP	VGN-A29SP
	VGN-A71S*	VGN-A250		VGN-A29TP
		VGN-A260		
		VGN-A270*		
		VGN-A270B*		
		VGN-A270P*		
		VGN-A290		
		VGN-A290F		

\* : CTO Model  
☞ : Additional Models

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## Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver.1	2004.09.10	First Edition	
-02	Ver.2	2004.10.01	△ <sup>1</sup> Front Page (Model Line Up), Page 3, Page 1-1_8, Page 3-1, Page 4-1, Page 4-3_7, Page 4-9_21, Page 4-23_32, Page 4-35, Page 5-3, Back Cover	N2004_101AK
-03	Ver.3	2004.10.18	△ <sup>2</sup> Front Page (Model Line Up), Page 3, Page 1-1_5, Page 4-1, Page 4-3, Page 4-5, Page 4-7, Page 4-9, Page 4-11, Page 4-13, Page 4-15, Page 4-17, Page 4-19_21, Page 4-23, Page 4-25, Page 4-27, Page 4-31_35, Back Cover	N2004_102AK
-04	Ver.4	2004.11.15	△ <sup>3</sup> Front Page (Model Line Up), Page 3, Page 1-2, Page 4-1, Page 4-5, Page 4-7, Page 4-11, Page 4-13, Page 4-17, Page 4-19, Page 4-21, Page 4-29, Page 4-31_32, Page 4-35, Back Cover	N2004_129AK
-05	Ver.5	2004.12.13	△ <sup>4</sup> Front Page (Model Line Up), Page 1-3, Page 3-2, Page 4-1, Page 4-3, Page 4-7, Page 4-9, Page 4-13, Page 4-15, Page 4-19, Page 4-21, Page 4-23, Page 4-31, Page 4-32_4-35, Back Cover	N2004_131AK
< Remarks >				

[Confidential]

VGN-A51PS1/A51PS2/A51S1/A51S2/A61B/A71PS/A71S (J)  
VGN-A230/A230B/A230P/A240/A240B/A240P/A250/A260/A270/A270B/A270P/A290/A290F (AM)  
VGN-A215M/A215Z/A217M/A217S/A295HP/A297XP (EU)  
VGN-A21C/A23CP/A29CP/A29GP/A29LP/A29SP/A29TP (AO)